	Disease	Class
1	Sroke	Flavonoids
1	Sroke	Flavonoids
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27	Sroke	Flavonoids
28	Sroke	Alkaloids
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35	Sroke	Alkaloids
36	Sroke	Alkaloids
37	Sroke	Polyphenols
37	Sroke	Polyphenols
37	Sroke	Polyphenols
37	Sroke	Polyphenols
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38	Sroke	Polyphenols
38	Sroke	Polyphenols
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46	Sroke	Polyphenols
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46	Sroke	Polyphenols
46	Sroke	Polyphenols
46	Sroke	Polyphenols
47	Sroke	Glycosides
47	Sroke	Glycosides
47	Sroke	Glycosides
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48	Sroke	Glycosides
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51	Sroke	Glycosides
52	Sroke	Iridoid glycoside
52	Sroke	Iridoid glycoside
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59	Sroke	Iridoid glycoside
60	Sroke	Saponin
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62	Sroke	Saponin
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67	Sroke	Saponin
68	Sroke	Terpenoids
68	Sroke	Terpenoids
69	Sroke	Terpenoids
70	Sroke	Terpenoids
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81	Sroke	Antraquinone
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81	Sroke	Antraquinone
82	Sroke	Antraquinone
82	Sroke	Antraquinone
82	Sroke	Antraquinone
82	Sroke	Antraquinone
83	Sroke	Adenosine analog
83	Sroke	Adenosine analog
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84	Sroke	Adenosine analog
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85	Sroke	Adenosine analog
85	Sroke	Adenosine analog
86	Sroke	N-linked glycans
86	Sroke	N-linked glycans
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88	Sroke	N-linked glycans
88	Sroke	N-linked glycans
91	Sroke	Phytocannabinoids
91	Sroke	Phytocannabinoids
92	Sroke	Phytocannabinoids
93	Sroke	Phytocannabinoids
94	Sroke	Phytocannabinoids
94	Sroke	Phytocannabinoids
94	Sroke	Phytocannabinoids
94	Sroke	Phytocannabinoids
95	Sroke	Trans-cinnamaldehyde
95	Sroke	Trans-cinnamaldehyde
95	Sroke	Trans-cinnamaldehyde
95	Sroke	Trans-cinnamaldehyde
95	Sroke	Trans-cinnamaldehyde
95	Sroke	Trans-cinnamaldehyde
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95	Sroke	Trans-cinnamaldehyde
95	Sroke	Trans-cinnamaldehyde

Chemical compound
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Quercetin
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Calycosin
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Calycosin
Xanthohumol
Xanthohumol
Xanthohumol
Xanthohumol
Xanthohumol
Carthamin yellow
Carthamin yellow
Carthamin yellow
Carthamin yellow
Carthamin yellow
Carthamin yellow
Dihydromyricetin
Dihydromyricetin
Berberine
Berberine

Berberine
Berberine
Berberine
Berberine
Berberine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Ligustrazine/tetramethylpyrazine
Daurisoline
Daurisoline
Daurisoline
Daurisoline
Tetrahydropalmatine
Tetrahydropalmatine
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Neferine
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Picroside II
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Ginsenoside Rg1
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Ginsenoside Rg1
Ginsenoside Rg1
Astragaloside IV
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Astragaloside IV
Panax notoginseng saponin (TSPN)
Panax notoginseng saponin (TSPN)
Panax notoginseng saponin (TSPN)
Panax notoginseng saponin (TSPN)
Andrographolide
Andrographolide
Andrographolide
Andrographolide
Andrographolide
Andrographolide
Andrographolide
Andrographolide
Andrographolide
Ginkgolide B
Ginkgolide B
Ginkgolide B
Ginkgolide B
Ginkgolide A (GA), ginkgolide B (GB), ginkgolide K (GK) and bilobalide (BB)
Ginkgolide A (GA), ginkgolide B (GB), ginkgolide K (GK) and bilobalide (BB)
Ginkgolide B (GB)
Ginkgolide B (GB)
Ginkgolide B (GB)
Ginkgolide B (GB)
Ginkgolide B (GB)
Ginkgolide B (GB)
Ginkgolides A, B and C
Ginkgolides A, B and C
Ginkgolides A, B and C
Ginkgolides A (GA), Ginkgolides B (GB), and Ginkgolides K (GK)
Ginkgolides A (GA), Ginkgolides B (GB), and Ginkgolides K (GK)
Ginkgolides A (GA), Ginkgolides B (GB), and Ginkgolides K (GK)
Ginkgolides A (GA), Ginkgolides B (GB), and Ginkgolides K (GK)
10-O-(N N-dimethylaminoethyl)-ginkgolide B methane-sulfonate (XQ-1H)
10-O-(N N-dimethylaminoethyl)-ginkgolide B methane-sulfonate (XQ-1H)
10-O-(N N-dimethylaminoethyl)-ginkgolide B methane-sulfonate (XQ-1H)
Borneol
Borneol
Borneol

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Cannabidiol
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Model
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Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
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Sprague–Dawley (SD) rats
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line
Murine BV-2 microglial cell line

Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Human brain microvascular endothelial cells (HBMECs) cell culture with oxygen and glucose deprivation/reoxy
Human brain microvascular endothelial cells (HBMECs) cell culture with oxygen and glucose deprivation/reoxy
Human brain microvascular endothelial cells (HBMECs) cell culture with oxygen and glucose deprivation/reoxy
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
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Sprague–Dawley (SD) rats
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Sprague–Dawley (SD) rats
Human brain microvascular endothelial cells (HBMVECs)
Human brain microvascular endothelial cells (HBMVECs)
Human brain microvascular endothelial cells (HBMVECs)
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
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Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Primary microglia culture
Primary microglia culture
Primary microglia culture
Primary microglia culture
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Primary microglia culture
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Primary microglia culture
Sprague–Dawley (SD) rats
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Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
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Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells

PC12 oxygen-glucose-deprived (OGD) cells
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
C57BL/6N mice
C57BL/6N mice
C57BL/6N mice
PC12 oxygen-glucose-deprived (OGD) cells
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Primary cultures of cortical neurons
Primary cultures of cortical neurons
Primary cultures of cortical neurons
C57BL/6 mice
Mouse N2a cells culture
Mouse N2a cells culture
Mouse N2a cells culture
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells

PC12 oxygen-glucose-deprived (OGD) cells
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
ICR mice
ICR mice
ICR mice
ICR mice
ICR mice
ICR mice
Primary cultured mouse cortical neuron
Primary cultured mouse cortical neuron
Primary cultured mouse cortical neuron
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
OGD/R model in BV2 cells
OGD/R model in BV2 cells
OGD/R model in BV2 cells
OGD/R model in BV2 cells
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats

Sprague–Dawley (SD) rats
OGD/R model in BV2 cells
OGD/R model in BV2 cells
OGD/R model in BV2 cells
OGD/R model in BV2 cells
OGD/R model in BV2 cells
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Gerbils
Gerbils
Gerbils
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
ICR mice
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats

Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Wistar rats
Wistar rats
Wistar rats
Wistar rats
ICR mice
ICR mice
Cerebral endothelial cells (CECs) cultures
Cerebral endothelial cells (CECs) cultures
Male 6-week-old specific pathogen-free (SPF) Kunming mice
Male 6-week-old specific pathogen-free (SPF) Kunming mice
Male 6-week-old specific pathogen-free (SPF) Kunming mice
Male 6-week-old specific pathogen-free (SPF) Kunming mice
Male 6-week-old specific pathogen-free (SPF) Kunming mice
Wistar rats
Wistar rats
Wistar rats
Wistar rats
SH-SY5Y cells
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Wistar rats
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells
Primary neuronal cultures of cerebral cortex
Primary neuronal cultures of cerebral cortex
Primary neuronal cultures of cerebral cortex

Primary neuronal cultures of cerebral cortex
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
ICR rats
ICR rats
ICR rats
ICR rats
HT22 cells
HT22 cells
HT22 cells
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells
PC12 oxygen-glucose-deprived (OGD) cells
Male kunming mice
Male kunming mice
Male kunming mice
Male kunming mice
Male kunming mice
Sprague–Dawley (SD) rats
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats

Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Sprague–Dawley (SD) rats
Gerbils
Gerbils
Gerbils
Gerbils
Gerbils
Gerbils
Gerbils
Gerbils
Gerbils
Wistar rats
Wistar rats
Wistar rats
Male Swiss mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice
C57BL/6 mice

Study	Pathogeny / associated process
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuronal apoptosis
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroplasticity
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Activated microglia
In vivo	Activated microglia
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation

In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Neurotransmition
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Oxidative stress
In vivo	Brain infarction
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Brain infarction
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation

In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Glutamate excitotoxicity
In vivo	Glutamate excitotoxicity
In vivo	Brain infarction
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Brain infarction
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Brain infarction
In vivo	Glutamate excitotoxicity
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Mitochondrial damage
In vivo	Mitochondrial damage
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis

In vitro	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Brain infarction
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vitro	Brain infarction
In vitro	Integrity of BBB
In vitro	Integrity of BBB
In vitro	Mitochondrial damage
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Autophagy dysfunction
In vivo	Autophagy dysfunction
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vivo	Brain infarction
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Autophagy dysfunction
In vitro	Autophagy dysfunction

In vitro	Brain infarction
In vivo	Mitochondrial damage
In vivo	Mitochondrial damage
In vivo	Mitochondrial damage
In vivo	Mitochondrial damage
In vivo	Activated microglia
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Integrity of BBB
In vivo	Integrity of BBB
In vivo	Brain infarction
In vivo	Autophagy dysfunction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Activated microglia
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Glutamate excitotoxicity
In vivo	Brain infarction
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vitro	Neuronal apoptosis
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation

In vivo	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vitro	Neuroinflamation
In vivo	Integrity of BBB
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuronal apoptosis
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuroinflamation
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis

In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Activated microglia
In vivo	Activated microglia
In vitro	Neuronal apoptosis
In vitro	Oxidative stress
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vitro	Oxidative stress
In vivo	Brain infarction
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vitro	Brain infarction
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Oxidative stress
In vitro	Oxidative stress
In vitro	Oxidative stress

In vitro	Oxidative stress
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vivo	Brain infarction
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Oxidative stress
In vivo	Neuroplasticity
In vivo	Neuroplasticity
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Neuronal apoptosis
In vitro	Brain infarction
In vitro	Oxidative stress
In vitro	Neurotransmition
In vitro	Neuronal apoptosis
In vivo	Brain infarction
In vivo	Neurotransmition
In vivo	Neurotransmition
In vivo	Oxidative stress
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Brain infarction
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Brain infarction
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Oxidative stress
In vivo	Oxidative stress

In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Neuronal apoptosis
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Activated microglia
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Brain infarction
In vivo	Neuroplasticity
In vivo	Brain infarction
In vivo	Brain infarction
In vivo	Brain infarction
In vivo	Activated microglia
In vivo	Activated microglia
In vivo	Neuroplasticity
In vivo	Brain infarction
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Oxidative stress
In vivo	Neuroinflamation
In vivo	Neuroinflamation
In vivo	Neuroinflamation

Dosis
100 and 200mg/kg
100 and 200mg/kg
100 and 200mg/kg
100 and 200mg/kg
100 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
137.5, 68.75, 34.38, 17.19, 8.59, 4.30, 2.15, and 1.08 µg/ml
137.5, 68.75, 34.38, 17.19, 8.59, 4.30, 2.15, and 1.08 µg/ml
137.5, 68.75, 34.38, 17.19, 8.59, 4.30, 2.15, and 1.08 µg/ml
50, 100 or 200 mg/kg
50, 100 or 200 mg/kg
50, 100 or 200 mg/kg
50, 100 or 200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
200 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min
2, 10, 50 µM for 30 min

0.09, 0.17, 0.35, 0.70, 1.40 mmol/kg
0.09, 0.17, 0.35, 0.70, 1.40 mmol/kg
0.09, 0.17, 0.35, 0.70, 1.40 mmol/kg
0.09, 0.17, 0.35, 0.70, 1.40 mmol/kg
0.09, 0.17, 0.35, 0.70, 1.40 mmol/kg
0.5, 2.5 or 10 nM
0.5, 2.5 or 10 nM
0.5, 2.5 or 10 nM
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2 mg/Kg
2.5, 5, and 10 µM
2.5, 5, and 10 µM
2.5, 5, and 10 µM
25 mg/kg
25 mg/kg
40 mg/kg
40 mg/kg
40 mg/kg
40 mg/kg
40 mg/kg
10 or 30 mg kg
10 or 30 mg kg
10 or 30 mg kg
10, 30mg/kg
10, 30mg/kg
10, 30mg/kg
10, 30mg/kg
0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L

0.25 mg/L
0.25 mg/L
0.25 mg/L
0.25 mg/L
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
60 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
5, 10, and 20 mg/kg
5, 10, and 20 mg/kg
5, 10, and 20 mg/kg
5, 10, and 20 mg/kg
5, 10, and 20 mg/kg
7.5, 15, 30 mg/kg
7.5, 15, 30 mg/kg
30 mg/kg
30 mg/kg
5, 10, 20 mg/kg/d
5, 10, 20 mg/kg/d
5, 10, 20 mg/kg/d
5, 10, 20 mg/kg/d
5, 10, 20 mg/kg/d
0.5 µg/mL
10 or 50 mg/kg
10 or 50 mg/kg
10 or 50 mg/kg
10 or 50 mg/kg
20 or 40 mg/kg
20 or 40 mg/kg
20 or 40 mg/kg
20 or 40 mg/kg
20 or 40 mg/kg
20 or 40 mg/kg
75 mg/kg
75 mg/kg
0.2, 0.02, 0.002 mg/kg
0.2, 0.02, 0.002 mg/kg

0.2, 0.02, 0.002 mg/kg
40mg/kg
40mg/kg
40mg/kg
40mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
10, 20 or 40 mg/kg
10, 20 or 40 mg/kg
1, 3, and 10 mg/kg
1, 3, and 10 mg/kg
1, 3, and 10 mg/kg
1, 3, and 10 mg/kg
1, 3, and 10 mg/kg
5 and 10 mg/kg
5 and 10 mg/kg
5 and 10 mg/kg
5 and 10 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
10, 20, 40 mg/kg
10, 20, 40 mg/kg
10, 20, 40 mg/kg
-
200 mg/kg
200 mg/kg
200 mg/kg
201 mg/kg
201 mg/kg
3 mg/kg
3 mg/kg
3 mg/kg
3 mg/kg
3 mg/kg
0.25-1.0 μM
0.25-1.0 μM
0.25-1.0 μM
100, 200, 300, 400 mg/kg
5, 15, 25, and 35 μmol/L
5, 15, 25, and 35 μmol/L
5, 15, 25, and 35 μmol/L
1.25–20 μM
1.25–20 μM

100 mg/kg
50, 100 mg/kg
50, 100 mg/kg
50, 100 mg/kg
50, 100 mg/kg
30 mg/kg
30 mg/kg
30 mg/kg
30 mg/kg
30 mg/kg
50 mg/kg
50 mg/kg
50 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
100 mg/kg
40 and 60 mg/kg
40 and 60 mg/kg
40 and 60 mg/kg
40 and 60 mg/kg
40 and 60 mg/kg
40 and 60 mg/kg
10 µmol/L
10 µmol/L
10 µmol/L
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
2.5, 5, 10, and 20 mg/kg/day
0, 6.25, 12.5, 25, 50, or 100 µM
0, 6.25, 12.5, 25, 50, or 100 µM
0, 6.25, 12.5, 25, 50, or 100 µM
0, 6.25, 12.5, 25, 50, or 100 µM
100 mg/kg/day
100 mg/kg/day
100 mg/kg/day

100 mg/kg/day
6, 12 µg/mL
6, 12 µg/mL
6, 12 µg/mL
6, 12 µg/mL
6, 12 µg/mL
25, 75, 125 mg/kg
200mg/l
5, 10 or 20 mg/kg per day
5, 10 or 20 mg/kg per day
5, 10 or 20 mg/kg per day
10 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
20 mg/kg
10, 20, 40 mg/kg
10, 20, 40 mg/kg
10, 20, 40 mg/kg
20, 40, 80 mg/kg
20, 40, 80 mg/kg
20, 40, 80 mg/kg
20, 40, 80 mg/kg
10 or 20 mg/kg
10 or 20 mg/kg
10 and 20mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg

12.5, 25, and 50 mg/kg
12.5, 25, and 50 mg/kg
10 ml/kg
10 ml/kg
10 ml/kg
10 ml/kg
10 ml/kg
10 ml/kg
50, 100, and 200 mg/kg
50, 100, and 200 mg/kg
50, 100, and 200 mg/kg
50, 100, and 200 mg/kg
10 or 100 µg/kg
10 or 100 µg/kg
20-100 µM
10 µM
120 mg/kg
120 mg/kg
120 mg/kg
120 mg/kg
120 mg/kg
2. 5, 5, 10 mg/kg
2. 5, 5, 10 mg/kg
2. 5, 5, 10 mg/kg
2. 5, 5, 10 mg/kg
25 mg/L
1 mg/kg, 2 mg/kg, and 4 mg/kg
1 mg/kg, 2 mg/kg, and 4 mg/kg
1 mg/kg, 2 mg/kg, and 4 mg/kg
1 mg/kg, 2 mg/kg, and 4 mg/kg
1 mg/kg, 2 mg/kg, and 4 mg/kg
1 mg/kg, 2 mg/kg, and 4 mg/kg
1 mg/kg, 2 mg/kg, and 4 mg/kg
10 µmol/L
10 µmol/L
10 µmol/L
1.25 mg/kg
1.25 mg/kg
1.25 mg/kg
1.25 mg/kg
7.8, 15.6, 31.2 mg/kg
1 µM, 3 µM, 10 µM, 50 µM, 100 µM
1 µM, 3 µM, 10 µM, 50 µM, 100 µM
0.003 to 0.3 µM
0.003 to 0.3 µM
0.003 to 0.3 µM

0.003 to 0.3 μM
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
0.2 g/kg
20 and 30 mg/kg
20 and 30 mg/kg
20 and 30 mg/kg
20 and 30 mg/kg
10–40 mM
10–40 mM
10–40 mM
15mg/kg
15mg/kg
15mg/kg
15mg/kg
10 mg/kg, 20 mg/kg
10 mg/kg, 20 mg/kg
10 mg/kg, 20 mg/kg
10 mg/kg, 20 mg/kg
10 mg/kg, 20 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
10 mg/kg
80 mg/kg or 160 mg/kg
80 mg/kg or 160 mg/kg
80 mg/kg or 160 mg/kg
80 mg/kg or 160 mg/kg
80 mg/kg or 160 mg/kg
80 mg/kg or 160 mg/kg
80 mg/kg or 160 mg/kg

80 mg/kg or 160 mg/kg
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50 mg/kg
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50 mg/kg
50 mg/kg
50 mg/kg
50 mg/kg
50 mg/kg
50 mg/kg
50 mg/kg
10 mg/kg
10 mg/kg
1 mg/kg
3, 10, and 30 mg/kg
10mg/kg
10mg/kg
10mg/kg
10mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg
10-30 mg/kg

Activity
Inhibited the expression of Caspase-3
Inhibited the expression of Caspase-3
Promoted the expression of BDNF
Promoted the expression of BDNF
Attenuating the phosphorylation level of CaMKII and prevented OGD-induced apoptosis of hippocampal or SH-
Increase of GABA(A)R α1, GABA(A)R γ2 and KCC2 mRNA and protein levels
Increase of GABA(A)R α1, GABA(A)R γ2 and KCC2 mRNA and protein levels
Increase of GABA(A)R α1, GABA(A)R γ2 and KCC2 mRNA and protein levels
Increase of GABA(A)R α1, GABA(A)R γ2 and KCC2 mRNA and protein levels
Increase of GABA(A)R α1, GABA(A)R γ2 and KCC2 mRNA and protein levels
Increase of GABA(A)R α1, GABA(A)R γ2 and KCC2 mRNA and protein levels
Decrease of NKCC1 at mRNA and protein levels
Decrease of NKCC1 at mRNA and protein levels
Increase the release of PI3K,Akt via MAPK/ERK
Increase the release of PI3K,Akt via MAPK/ERK
Increased levels of BDNF
Enhancing BCL-2 and MCL-1 expression by triggering the CArG box
Enhancing BCL-2 and MCL-1 expression by triggering the CArG box
Enhancing BCL-2 and MCL-1 expression by triggering the CArG box
Enhancing BCL-2 and MCL-1 expression by triggering the CArG box
Suppressed NF-κB signaling by reducing IκBα phosphorylation and nuclear translocation of NF-κB/p65, which d
Suppressed NF-κB signaling by reducing IκBα phosphorylation and nuclear translocation of NF-κB/p65, which d
Suppressed NF-κB signaling by reducing IκBα phosphorylation and nuclear translocation of NF-κB/p65, which d
Increased the Bcl-2 expression
Reduced Bax and caspase-3 expression
Reduced Bax and caspase-3 expression
Increase expression of the PI3K, Akt, mTOR proteins
Increase expression of the PI3K, Akt, mTOR proteins
Increase expression of the PI3K, Akt, mTOR proteins
Enhanced expression of MAP-2, BDNF, NT-3 and IGF-1
Enhanced expression of MAP-2, BDNF, NT-3 and IGF-1
Enhanced expression of MAP-2, BDNF, NT-3 and IGF-1
Enhanced expression of MAP-2, BDNF, NT-3 and IGF-1
Suppressed expression of proinflammatory mediators (iNOS, TNF-α, and IL-1β) in in activated microglia/brain
Suppressed expression of proinflammatory mediators (iNOS, TNF-α, and IL-1β) in in activated microglia/brain
Suppressed expression of proinflammatory mediators (iNOS, TNF-α, and IL-1β) in in activated microglia/brain
Decreased expression of proinflammatory markers in AM/BM through suppressing the p-JNK and p-p38 MAPK
Decreased expression of proinflammatory markers in AM/BM through suppressing the p-JNK and p-p38 MAPK
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS
Inhibited LPS-induced production of proinflammatory mediators such as NO, TNFα, IL-1β and ROS

Decrease the contents of glutamic acid (Glu), aspartic acid (Asp), glycine (Gly), γ-aminobutyric acid (GABA) and

Decrease the contents of glutamic acid (Glu), aspartic acid (Asp), glycine (Gly), γ-aminobutyric acid (GABA) and

Decrease the contents of glutamic acid (Glu), aspartic acid (Asp), glycine (Gly), γ-aminobutyric acid (GABA) and

Decrease the contents of glutamic acid (Glu), aspartic acid (Asp), glycine (Gly), γ-aminobutyric acid (GABA) and

Decrease the contents of glutamic acid (Glu), aspartic acid (Asp), glycine (Gly), γ-aminobutyric acid (GABA) and

Reduced LDH and Caspase 3 level

Reduced LDH and Caspase 3 level

Increase eNOS phosphorylation and inhibit iNOS expression in response to the activated Akt

MCAO-induced brain infarction was decreased by vitexin

Increase protein levels of antigen identified by monoclonal antibody (Ki-67) and Bcl-2

Increase protein levels of antigen identified by monoclonal antibody (Ki-67) and Bcl-2

Decrease protein levels of Caspase-3 and Bax, antigen identified by monoclonal antibody (Ki-67) and Bcl-2 in M

Decrease protein levels of Caspase-3 and Bax, antigen identified by monoclonal antibody (Ki-67) and Bcl-2 in M

Increased IL-10 production to ameliorate MCAO-induced inflammation

Attenuated the secretion of pro-inflammatory cytokine IL-6 and TNF-a to ameliorate MCAO-induced inflammat

Attenuated the secretion of pro-inflammatory cytokine IL-6 and TNF-a to ameliorate MCAO-induced inflammat

Enhancive expression of Ulk1 and inhibited the reduced expression of mTOR and PPAR-γ

Enhancive expression of Ulk1 and inhibited the reduced expression of mTOR and PPAR-γ

Enhancive expression of Ulk1 and inhibited the reduced expression of mTOR and PPAR-γ

Upregulated mRNA expression of Caspase-3 in the HBMVEC + KD group compared with the HBMVEC + NC grou

Attenuated expression of Bcl-2, Caveolin-1-KD in the HBMVEC and HBMVEC + NC groups

Attenuated expression of Bcl-2, Caveolin-1-KD in the HBMVEC and HBMVEC + NC groups

Reduced volume of cerebral infarction while prompting vascular endothelial cell proliferation by upregulating

Reduced volume of cerebral infarction while prompting vascular endothelial cell proliferation by upregulating

The acetylated H3 and acetylated H4 expressions and Syn-I expressions in the hippocampus was upregulated

The acetylated H3 and acetylated H4 expressions and Syn-I expressions in the hippocampus was upregulated

The acetylated H3 and acetylated H4 expressions and Syn-I expressions in the hippocampus was upregulated

The HDAC content was decreased

The BDNF level was markedly increased

Inhibited IL-1β and TGF-β1 protein expression

Inhibited IL-1β and TGF-β1 protein expression

Improved the neurological dysfunction and decreased infarct volume in MCAO rats.

Reduce the protein levels of IL-1β and TGF-β1

Reduce the protein levels of IL-1β and TGF-β1

Up-regulated PPARα and PPARγ protein levels and suppressed IκB-α degradation and NF-κB activation induced

Up-regulated PPARα and PPARγ protein levels and suppressed IκB-α degradation and NF-κB activation induced

Reduce the the expression of IL-1 β, IL-6, TNF-α, XBP1u, XBP1s and caspase-3

Reduce the the expression of IL-1 β, IL-6, TNF-α, XBP1u, XBP1s and caspase-3

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Reduce the the expression of IL-1 β, IL-6, TNF-α, XBP1u, XBP1s and caspase-3

Reduce the overexpression of p-IRE1α related with ER stress and apoptosis

Reduce the overexpression of p-IRE1α related with ER stress and apoptosis

Icariin enhanced the effect of therapeutic hypothermia on infarct and neurological deficits in MCAO rats

Downregulated the expressions of TNF-α, IL-6, C-Caspase 3 and Bax, and the activation of PPARs/Nrf2/NF-κB a

Downregulated the expressions of TNF-α, IL-6, C-Caspase 3 and Bax, and the activation of PPARs/Nrf2/NF-κB a

Downregulated the expressions of TNF-α, IL-6, C-Caspase 3 and Bax, and the activation of PPARs/Nrf2/NF-κB a

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Downregulated the expressions of TNF-α, IL-6, C-Caspase 3 and Bax, and the activation of PPARs/Nrf2/NF-κB a

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Downregulated the expressions of TNF-α, IL-6, C-Caspase 3 and Bax, and the activation of PPARs/Nrf2/NF-κB a

Downregulated the expressions of TNF-α, IL-6, C-Caspase 3 and Bax, and the activation of PPARs/Nrf2/NF-κB a

Elevated the expression of Bcl-2

quercetin administration attenuated the permanent middle cerebral artery occlusion (pMCAO)-induced increa

Quercetin treatment attenuated the increase of caspase-3

Quercetin treatment attenuated the increase of caspase-3

Lower degree of infarct volume, and brain water content than the vehicle-treated rats

Decreased the ROS and MDA production, and increased the activity of SOD and CAT in brains of MCAO/R rats

Decreased the ROS and MDA production, and increased the activity of SOD and CAT in brains of MCAO/R rats

Downregulation of cleaved caspase-3 protein

Upregulation of Bcl-2 protein level

Ameliorated neurologic deficit and infarct volume after cerebral ischemia reperfusion

Inhibit the expression of 4-Hydroxy-2-nonenal (4-HNE).

Increased the cerebral expression of BDNF/TrkB,

Increased the cerebral expression of BDNF/TrkB,

Decreased infarct volume and brain edema, and ameliorated neurological scores

Upregulated the expression of p62, NBR1 and Bcl-2

Upregulated the expression of p62, NBR1 and Bcl-2

Upregulated the expression of p62, NBR1 and Bcl-2

Downregulated the level of TNF-α.

treatment of XN improved MCAO-induced brain injury by reducing infarct size, improving neurological deficits

Ameliorated glutamate concentration elevation, and CA3 neuron death

Decrease of mitochondrial fusion protein Mfn-2 and antiapoptotic protein Bcl-2 expression

Decrease of mitochondrial fusion protein Mfn-2 and antiapoptotic protein Bcl-2 expression

Inhibition of Apaf-1 expression and caspase-3 activation

Attenuated the neurological deficit score, brain water content and infarct area

Decreased serum TNF-α, IL-1β and IL-6 concentrations

Decreased serum TNF-α, IL-1β and IL-6 concentrations

Decreased serum TNF-α, IL-1β and IL-6 concentrations

Decrease levels of ACSL4 and TFR1 in the cortex that attenuates ferroptosis

Decrease levels of ACSL4 and TFR1 in the cortex that attenuates ferroptosis

Stimulated expression PGC-1α and TFAM that are responsible for mitochondrial biogenesis mitochondrial and

Stimulated expression PGC-1α and TFAM that are responsible for mitochondrial biogenesis mitochondrial and

Upregulated Akt activation by and suppressed cleaved caspase-3 expression.

Upregulation of PI3K, p55γ mRNA in vitro and in vivo

Upregulation of PI3K, p55γ mRNA in vitro and in vivo
Infarct volume decreased, decreased brain edema and contributed to the restoration of motor function
Downregulation of pro-inflammatory cytokines (TNFα and IL-6)
Downregulation of pro-inflammatory cytokines (TNFα and IL-6)
Upregulation anti-inflammatory cytokines (IL-1β)
Minimal detection of CD68-positive activated macrophages/microglia
Upregulated Akt and ERK phosphorylation, and attenuated neutrophil migration, endothelium adhesion, spont
Upregulated Akt and ERK phosphorylation, and attenuated neutrophil migration, endothelium adhesion, spont
Reducing volume of infarction, neuronal loss and water content
The nNOS expression in cortex and dentate gyrus was reduced
Increased levels of NO, p-Akt/Akt, and p-eNOS/eNOS
Increased levels of NO, p-Akt/Akt, and p-eNOS/eNOS
Increased levels of NO, p-Akt/Akt, and p-eNOS/eNOS
Increased levels of NO, p-Akt/Akt, and p-eNOS/eNOS
Increased levels of NO, p-Akt/Akt, and p-eNOS/eNOS
Increased Bcl-2 expression
Increased Bcl-2 expression
Reduced Bax expression in the penumbra
Reduced Bax expression in the penumbra
Enhanced the expression of Bcl-2
Attenuated the content of Bax, cleaved caspase-3, and PARP
Attenuated the content of Bax, cleaved caspase-3, and PARP
Attenuated the content of Bax, cleaved caspase-3, and PARP
Brain water content increase, cerebral blood flow decrease, cerebral infarction and neurological deficits decre
Inhibits the expression of MMP-2/9 and Src/MLCK/MLC signaling pathway to attenuated BBB injury.
Inhibits the expression of MMP-2/9 and Src/MLCK/MLC signaling pathway to attenuated BBB injury.
Increased mitochondrial respiration, prevented mitochondrial dysfunction by the increased the expression of M
Decreased protein levels of TLR4, p-p38, and IL1
Decreased protein levels of TLR4, p-p38, and IL1
Decreased protein levels of TLR4, p-p38, and IL1
Upregulating p-Akt and p-mTOR expression
Upregulating p-Akt and p-mTOR expression
Attenuated neurological deficits, reduced cerebral infarction area and lowered brain water content
Reduced the epression of IL-1β and IL-8 and enhanced the expression of p-JAK2 and p-STAT3
Reduced the epression of IL-1β and IL-8 and enhanced the expression of p-JAK2 and p-STAT3
Reduced the epression of IL-1β and IL-8 and enhanced the expression of p-JAK2 and p-STAT3
Reduced the epression of IL-1β and IL-8 and enhanced the expression of p-JAK2 and p-STAT3
Upregulation of flotillin-1 protein level wich decrease cell death, LDH release and caspase-3 activation
Upregulation of flotillin-1 protein level wich decrease cell death, LDH release and caspase-3 activation
Upregulation of flotillin-1 protein level wich decrease cell death, LDH release and caspase-3 activation
Reduced infarct volume, improved neurological function, alleviated the morphological damage of neurons, and
Increased Bcl-2 protein levels
Decreased Bax and caspase-3 expressions in mouse N2a cells
Decreased Bax and caspase-3 expressions in mouse N2a cells
Decreased the expression of LC3 II and HIF-1α
Decreased the expression of LC3 II and HIF-1α

Exhibited substantial reductions in neurological score and infarct area
Upregulated expression of the mitochondrial biogenesis regulators NRF-1 and TFAM
Upregulated expression of the mitochondrial biogenesis regulators NRF-1 and TFAM
Upregulated expression of the mitochondrial biogenesis regulators NRF-1 and TFAM
Upregulated expression of the mitochondrial biogenesis regulators NRF-1 and TFAM
Reduced astroglial and microglial activation associated with a decrease in cd11b immunoreactivity
Attenuated NF-κB levels and JNK activation; Pretreatment for 7 days before I/R decreased iNOS and COX-2 exp
Attenuated NF-κB levels and JNK activation; Pretreatment for 7 days before I/R decreased iNOS and COX-2 exp
Attenuated NF-κB levels and JNK activation; Pretreatment for 7 days before I/R decreased iNOS and COX-2 exp
Attenuated NF-κB levels and JNK activation; Pretreatment for 7 days before I/R decreased iNOS and COX-2 exp
Reduced the cerebral ischemia reperfusion damage, brain edema, and Evans blue dye extravasation
Downregulated MMP-9 expression
Upregulated TIMP-1 expression
Reduced cerebral infarct volume, decreased brain water content, and improved neurological scores
Upregulates Sirt1 expression and enhence autophagy activity
Reduce expression of protein levels of activated NLRP3 inflammasome (caspase-1, IL-1β, and IL-18)
Reduce expression of protein levels of activated NLRP3 inflammasome (caspase-1, IL-1β, and IL-18)
Reduce expression of protein levels of activated NLRP3 inflammasome (caspase-1, IL-1β, and IL-18)
Decreased expression of inflammatory cytokines including interleukin (IL)-1β, interleukin (IL)-6 and tumor necr
Decreased expression of inflammatory cytokines including interleukin (IL)-1β, interleukin (IL)-6 and tumor necr
Decreased expression of inflammatory cytokines including interleukin (IL)-1β, interleukin (IL)-6 and tumor necr
Reduced phosphorylation of p38, MAPK and Iba1 expression
Reduced phosphorylation of p38, MAPK and Iba1 expression
Reduced phosphorylation of p38, MAPK and Iba1 expression
Increase ilevels of Bax
Decreased levels of Bcl-2
Attenuated the upregulation of NR2B expression, a subunit of N-methyl-D-aspartate receptors and inhibited Ca
Reduced cerebral infarction and improved neurological function after cerebral ischemia
Reduced the expression of M1 microglia/macrophage markers (IL-1β, IL-6, TNF-α, IFN-γ)
Reduced the expression of M1 microglia/macrophage markers (IL-1β, IL-6, TNF-α, IFN-γ)
Reduced the expression of M1 microglia/macrophage markers (IL-1β, IL-6, TNF-α, IFN-γ)
Reduced the expression of M1 microglia/macrophage markers (IL-1β, IL-6, TNF-α, IFN-γ)
Increased the expression of M2 microglia/macrophage markers after stroke (IL-10, TGFβ)
Increased the expression of M2 microglia/macrophage markers after stroke (IL-10, TGFβ)
Reduced the secretion of the pro-inflammatory cytokines, IL-1β, IL-2, IL-6, IL-8, and TNFα in M1 microglia
Reduced the secretion of the pro-inflammatory cytokines, IL-1β, IL-2, IL-6, IL-8, and TNFα in M1 microglia
Reduced the secretion of the pro-inflammatory cytokines, IL-1β, IL-2, IL-6, IL-8, and TNFα in M1 microglia
Reduced the secretion of the pro-inflammatory cytokines, IL-1β, IL-2, IL-6, IL-8, and TNFα in M1 microglia
Reduced the secretion of the pro-inflammatory cytokines, IL-1β, IL-2, IL-6, IL-8, and TNFα in M1 microglia
Increased viability, inhibited lactate dehydrogenase (LDH) release, and reduced apoptosis in OGD/R-induced BV
Reduce levels of TNF-α, IL-6 and IL-8
Reduce levels of TNF-α, IL-6 and IL-8
Reduce levels of TNF-α, IL-6 and IL-8
Reduce NFκB p50 subunit, IL-6, and TNFα expression
Reduce NFκB p50 subunit, IL-6, and TNFα expression
Reduce NFκB p50 subunit, IL-6, and TNFα expression

Increase NeuN expression
Decreased levels of NLRP3, ASC, cleaved- caspase-1 and IL-1β, and decreased the expression of P62
Decreased levels of NLRP3, ASC, cleaved- caspase-1 and IL-1β, and decreased the expression of P62
Decreased levels of NLRP3, ASC, cleaved- caspase-1 and IL-1β, and decreased the expression of P62
Decreased levels of NLRP3, ASC, cleaved- caspase-1 and IL-1β, and decreased the expression of P62
Decreased levels of NLRP3, ASC, cleaved- caspase-1 and IL-1β, and decreased the expression of P62
protected the tMCAO animals against vascular remodelling and controled hemorhragic lesion
Medium and high doses of geniposide attenuated oxidative stress insult and improved iLTP
Increased the activity superoxide dismutase (SOD) and decresed malondialdehyde (MDA) content and plasma
Increased the activity superoxide dismutase (SOD) and decresed malondialdehyde (MDA) content and plasma
Increased the activity superoxide dismutase (SOD) and decresed malondialdehyde (MDA) content and plasma
Down-regulate the expressions of TLR4, NFkappaB and TNFalpha
Down-regulate the expressions of TLR4, NFkappaB and TNFalpha
Down-regulate the expressions of TLR4, NFkappaB and TNFalpha
Inhibit caspase-3 expression and reduce PARP degradation after cerebral ischemic
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease levels of pMEK1/2, pERK1/2, and COX2 downregulated expression
Decrease the cerebral infarction volume
Reduce ROS contents, protect the structure of mitochondria, and down-regulate the expression of CytC and Ca
Reduce ROS contents, protect the structure of mitochondria, and down-regulate the expression of CytC and Ca
Reduce ROS contents, protect the structure of mitochondria, and down-regulate the expression of CytC and Ca
Increased the expression of p-ERK1/2 and p-JNK
Increased the expression of p-ERK1/2 and p-JNK
Increased the expression of p-ERK1/2 and p-JNK
Reduced IL-1 beta epression
Increase SOD activity and decrease MDA content in serum and spinal cord tissue
Increase SOD activity and decrease MDA content in serum and spinal cord tissue
Increase survivin protein expression and decrease neuronal apoptosis
Improved neurological outcome and reduced infarct volume
Decreasing the percentage of CD11b/CD18-positive neutrophils and down-regulating the expression of interce
Reduced the expression of toll-like receptor-4 (TLR4) and its downstream adaptor proteins (MyD88, TRIF and T
Inhibited the mRNA upregulation of Fas, FasL, Caspase-8, and Bax/Bcl-2
Inhibited the mRNA upregulation of Fas, FasL, Caspase-8, and Bax/Bcl-2
Inhibited the mRNA upregulation of Fas, FasL, Caspase-8, and Bax/Bcl-2
Inhibited the mRNA upregulation of Fas, FasL, Caspase-8, and Bax/Bcl-2
Inhibited the mRNA upregulation of Fas, FasL, Caspase-8, and Bax/Bcl-2
Increase protein level of apoptosis cytokines Caspase-8, Bid, cleaved Caspase-3 and Cyto C
Increase protein level of apoptosis cytokines Caspase-8, Bid, cleaved Caspase-3 and Cyto C

Increase protein level of apoptosis cytokines Caspase-8, Bid, cleaved Caspase-3 and Cyto C

Increase protein level of apoptosis cytokines Caspase-8, Bid, cleaved Caspase-3 and Cyto C

Reduced the cerebral infarct volume and the neurological deficit score

Reduced the protein levels of NLRP3, Caspase-1, IL-1β, GSDMD, and GSDMD-N, inhibiting NLRP3 inflammasom

Reduced the protein levels of NLRP3, Caspase-1, IL-1β, GSDMD, and GSDMD-N, inhibiting NLRP3 inflammasom

Reduced the protein levels of NLRP3, Caspase-1, IL-1β, GSDMD, and GSDMD-N, inhibiting NLRP3 inflammasom

Reduced the protein levels of NLRP3, Caspase-1, IL-1β, GSDMD, and GSDMD-N, inhibiting NLRP3 inflammasom

Reduced the protein levels of NLRP3, Caspase-1, IL-1β, GSDMD, and GSDMD-N, inhibiting NLRP3 inflammasom

Reduce the severity of neurological deficits, infarct volumes, cerebral edema, and neuronal death

Reduce the level of cleaved caspase-3 and Increase the Bcl-2/Bax ratio

Reduce the level of cleaved caspase-3 and Increase the Bcl-2/Bax ratio

Reduce the level of cleaved caspase-3 and Increase the Bcl-2/Bax ratio

Reduces NOX2 and iNOS expression by impairing PI3K/AKT-dependent NF- κB and HIF-1 α activation

Reduces NOX2 and iNOS expression by impairing PI3K/AKT-dependent NF- κB and HIF-1 α activation

Induced CEC apoptosis and caspase-3 activation

Increased Nrf2-HO-1 expression through p38 MAPK regulation

Decreased the expression of GFAP

Increased the expression of NeuN

Decreased the levels of pro-inflammatory cytokines (IL-1β, IL-6 and TNF-α)

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Decreased the levels of pro-inflammatory cytokines (IL-1β, IL-6 and TNF-α)

Reduced infarct volume, ameliorated the neurological deficit and the permeability of BBB

Decresed the content of IL-6, IL-1beta in serum and TNF-alpha

Decresed the content of IL-6, IL-1beta in serum and TNF-alpha

Decresed the content of IL-6, IL-1beta in serum and TNF-alpha

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf2

The infarct volume ratios in MCAO rats were dramatically decreased by GB in a dose-dependent

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf2

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf3

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf4

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf5

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf6

Upregulated the protein levels of HO-1, Nqo1, SOD, p-Akt, p-Nrf2, SOD, and Nrf7

Decreased rat neurological deficit scores, reduced brain infarct volume

Reduced the ratio of Bax/Bcl-2 in the I/R group

Reduced the ratio of Bax/Bcl-2 in the I/R group

Reduced infarct size and brain edema, improved neurological deficit score and inhibit platelet aggregation and

Decreasing lactate dehydrogenase (LDH) activity, and inhibiting IL-1β and TNF-α releasing associated with the

Decreasing lactate dehydrogenase (LDH) activity, and inhibiting IL-1β and TNF-α releasing associated with the

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Reduced the brain infarct and edema, attenuated the neuro-behavioral dysfunction, and improved cell morph

Decreased expression of bcl-2, and bax via activating PI3K/Akt signaling pathway

Decreased expression of bcl-2, and bax via activating PI3K/Akt signaling pathway

Inhibits overproduction of ROS and iNOS/NO and decreased TNF-alpha levels

Inhibits overproduction of ROS and iNOS/NO and decreased TNF-alpha levels

Inhibits overproduction of ROS and iNOS/NO and decreased TNF-alpha levels

Inhibits overproduction of ROS and iNOS/NO and decreased TNF-alpha levels
Increased serum VEGF levels and decreased serum TNF-α levels
Increased serum VEGF levels and decreased serum TNF-α levels
Ameliorated neurological deficits
Reducing the Bax/Bcl-2 ratio
Reducing the Bax/Bcl-2 ratio
Reducing the Bax/Bcl-2 ratio
Reducing the Bax/Bcl-2 ratio
Reduce the gene and protein levels of Apaf-1, Bad and Caspase-3 and increase the expression of Bcl-2
Reduce the gene and protein levels of Apaf-1, Bad and Caspase-3 and increase the expression of Bcl-2
Reduce the gene and protein levels of Apaf-1, Bad and Caspase-3 and increase the expression of Bcl-2
Increase the expression of Bcl-2
Reduce the gene and protein levels of Apaf-1, Bad and Caspase-3 and increase the expression of Bcl-2
Reduce the gene and protein levels of Apaf-1, Bad and Caspase-3 and increase the expression of Bcl-2
Reduce the gene and protein levels of Apaf-1, Bad and Caspase-3 and increase the expression of Bcl-2
Increase the expression of Bcl-2
Improved neurological deficits, infarct volume, and brain edema
Reduced the cleaved Caspase-3 level but enhanced the phosphorylation of Akt, BAD and mTOR
Enhanced the expression of BDNF and CREB significantly
Enhanced the expression of BDNF and CREB significantly
Exposure of glutamate-treated cells to emodin induced an increase in the level of Bcl-2 expression
Increase in the level of Bcl-2 expression
Reduce expression of Bax and active caspase-3 proteins
Reduced infarct volume and cell death
Reduced reactive oxygen species (ROS) production and glutamate release
Increased glutamate transporter-1 (GLT-l) expression and reduce glutamate release
Increased Bcl-2 expression
Prevent postischemic neuronal degeneration and brain slice injury
Decrease the extracellular level of glutamate and aspartate significantly
Decrease the extracellular level of glutamate and aspartate significantly
Decrease the level of malondialdehyde (MDA) and Increase the activity of superoxide dismutase (SOD)
Inhibit expression of matrix metalloproteinase-3(MMP-3)
Prevented the reduction on adenosine A1 receptor level caused by ischemia
Ameliorated long-term neurological deficits and reduced neuronal tissue loss
Ihibited microglia/macrophage pro-inflammatory polarization by downregulated of CD16/Iba1
Ihibited microglia/macrophage pro-inflammatory polarization by downregulated of CD16/Iba1
Inhibits the expression of inflammatory mediators (TNF-α, IL-1β, and CCL3) and suppressed the activities of MM
Inhibits the expression of inflammatory mediators (TNF-α, IL-1β, and CCL3) and suppressed the activities of MM
Inhibits the expression of inflammatory mediators (TNF-α, IL-1β, and CCL3) and suppressed the activities of MM
Reduced the neurological deficits and infarct volume
Decreased the levels of inflammation-associated cytokines IL-1β, IL-6, myeloperoxidase (MPO), and TNF-α
Decreased the levels of inflammation-associated cytokines IL-1β, IL-6, myeloperoxidase (MPO), and TNF-α
Decreased the levels of inflammation-associated cytokines IL-1β, IL-6, myeloperoxidase (MPO), and TNF-α
Decreased the levels of inflammation-associated cytokines IL-1β, IL-6, myeloperoxidase (MPO), and TNF-α
Decreased the levels of oxidative stress-related proteins (MDA and SOD)
Decreased the levels of oxidative stress-related proteins (MDA and SOD)

Decreased the levels of apoptosis-related proteins (p-53, Bax, and B-cell lymphoma (Bcl)-2)
Decreased the levels of apoptosis-related proteins (p-53, Bax, and B-cell lymphoma (Bcl)-2)
Decreased the levels of apoptosis-related proteins (p-53, Bax, and B-cell lymphoma (Bcl)-2)
Reduce oxidative stress indicators (dihydroethidium, 8-hydroxyguanine and 4-hydroxy-2-nonenal) and antioxid
Reduce oxidative stress indicators (dihydroethidium, 8-hydroxyguanine and 4-hydroxy-2-nonenal) and antioxid
Reduce oxidative stress indicators (dihydroethidium, 8-hydroxyguanine and 4-hydroxy-2-nonenal) and antioxid
Reduce oxidative stress indicators (dihydroethidium, 8-hydroxyguanine and 4-hydroxy-2-nonenal) and antioxid
Reduce oxidative stress indicators (dihydroethidium, 8-hydroxyguanine and 4-hydroxy-2-nonenal) and antioxid
Inhibited activations of astrocytes and microglia (GFAP) in the ischemic CA1 area
Reduced the increased 4-hydroxy-2-noneal and superoxide anion radical production and increased expressions
Reduced the increased 4-hydroxy-2-noneal and superoxide anion radical production and increased expressions
Reduced the increased 4-hydroxy-2-noneal and superoxide anion radical production and increased expressions
Reduced the increased 4-hydroxy-2-noneal and superoxide anion radical production and increased expressions
Attenuated ischemia-induced memory deficits
Increased BDNF levels and attenuated hippocampal CA1 neurodegeneration and
Reduced brain infarct volume) and lessened the extent of histological damage
Decrease in hippocampal neurodegeneration
Prevented the cognitive and emotional impairments
Decreases hippocampal neuroinflammation by downregulated Iba-1 (microglia) and GFAP (astrocytes)
Decreases hippocampal neuroinflammation by downregulated Iba-1 (microglia) and GFAP (astrocytes)
Inrease in the hippocampal brain derived neurotrophic factor (BDNF) protein levels
Reduced the infarction area, neurological deficit score
Reduced protein expression of iNOS and COX-2, and attenuated inhibition of p53 protein
Reduced protein expression of iNOS and COX-2, and attenuated inhibition of p53 protein
Reduced protein expression of iNOS and COX-2, and attenuated inhibition of p53 protein
Reduced protein expression of iNOS and COX-2, and attenuated inhibition of p53 protein
Reduced protein expression of iNOS and COX-2, and attenuated inhibition of p53 protein
Reduced protein expression of iNOS and COX-2, and attenuated inhibition of p53 protein
Reduced mRNA expression of iNOS, COX-2, and TNFα.
Reduced mRNA expression of iNOS, COX-2, and TNFα.
Reduced mRNA expression of iNOS, COX-2, and TNFα.

Target	Protein level
Caspase-3	Decrease protein leves
Caspase-3	-
BDNF	Increase Preotein levels
BDNF	-
CaMKII	Decrease protein leves
GABA(A)R α1	Increase Preotein levels
GABA(A)R γ2	Increase Preotein levels
KCC2	Increase Preotein levels
GABA(A)R α1	-
GABA(A)R γ2	-
KCC2	-
NKCC1	Decrease protein leves
NKCC1	-
PI3K	Increase Preotein levels
Akt	Increase Preotein levels
BDNF	Increase Preotein levels
BCL-2	Increase Preotein levels
MCL-1	Increase Preotein levels
MCL-1	-
MCL-1	-
IL-6	Decrease protein leves
IL-18	Decrease protein leves
TNF-α	Decrease protein leves
BCL-2	Increase Preotein levels
Bax	Decrease protein leves
Caspase-3	Decrease protein leves
PI3K	Increase Preotein levels
Akt	Increase Preotein levels
mTOR	Increase Preotein levels
MAP-2	Increase Preotein levels
BDNF	Increase Preotein levels
NT-3	Increase Preotein levels
IGF-1	Increase Preotein levels
iNOS	Decrease protein leves
TNF-α	Decrease protein leves
IL-1β	Decrease protein leves
p-JNK	Decrease protein leves
p-p38	Decrease protein leves
NO	Decrease protein leves
TNF-α	Decrease protein leves
IL-1β	Decrease protein leves
ROS	Decrease protein leves
NO	-
TNF-α	-
IL-1β	-
ROS	-

Glu	Decrease protein leves
Asp	Decrease protein leves
Gly	Decrease protein leves
GABA	Decrease protein leves
Tau	Decrease protein leves
LDH	Decrease protein leves
Caspase-3	Decrease protein leves
iNOS	Decrease protein leves
-	-
Ki-67	Increase Preotein levels
BCL-2	Increase Preotein levels
Caspase-3	Increase Preotein levels
Bax	Increase Preotein levels
IL-10	Increase Preotein levels
IL-6	Decrease protein leves
TNF-α	Decrease protein leves
Ulk1	Increase Preotein levels
mTOR	Increase Preotein levels
PPAR-γ	Increase Preotein levels
Caspase-3	-
BCL-2	-
Caveolin-1-KD	-
VEGFR2	Increase Preotein levels
CD34	Increase Preotein levels
H3	-
H4	-
Syn-I	-
HDAC	Decrease protein leves
BDNF	Increase Preotein levels
IL-1β	Decrease protein leves
TGF-β1	Decrease protein leves
-	-
IL-1β	Decrease protein leves
TGF-β1	Decrease protein leves
PPARα	Increase Preotein levels
PPARγ	Increase Preotein levels
IL-1β	Decrease protein leves
IL-6	Decrease protein leves
TNF-α	Decrease protein leves
XBP1u	Decrease protein leves
Caspase-3	Decrease protein leves
XBP1s	Decrease protein leves
IL-1β	-
IL-6	-
TNF-α	-
XBP1u	-

Caspase-3	-
XBP1s	-
p-IRE1α	Decrease protein leves
p-IRE1α	-
-	-
TNF-α	Decrease protein leves
IL-6	Decrease protein leves
Caspase-3	Decrease protein leves
Bax	Decrease protein leves
TNF-α	-
IL-6	-
Caspase-3	-
Bax	-
BCL-2	Increase Preotein levels
-	-
Caspase-3	Decrease protein leves
Caspase-3	-
-	-
ROS	Decrease protein leves
MDA	Decrease protein leves
Caspase-3	Decrease protein leves
BCL-2	Increase Preotein levels
-	-
4-HNE	Decrease protein leves
BDNF	Increase Preotein levels
TrkB	Increase Preotein levels
-	-
p62	-
NBR1	-
BCL-2	-
TNF-α	Decrease protein leves
-	-
-	-
Mfn-2	Decrease protein leves
BCL-2	Decrease protein leves
Apaf-1	Decrease protein leves
-	-
TNF-α	Decrease protein leves
IL-1β	Decrease protein leves
IL-6	Decrease protein leves
ACSL4	Decrease protein leves
TFR1	Decrease protein leves
PGC-1α	-
TFAM	-
Caspase-3	Decrease protein leves
PI3K	-

p55γ	-
-	-
TNF-α	Decrease protein leves
IL-6	Decrease protein leves
IL-1β	Increase protein leves
CD68	Decrease protein leves
Akt	Increase protein leves
ERK	Increase protein leves
-	-
nNOS	Decrease protein leves
NO	Increase protein leves
p-Akt	Increase protein leves
Akt	Increase protein leves
p-eNOS	Increase protein leves
eNOS	Increase protein leves
BCL-2	Increase protein leves
BCL-2	-
Bax	Decrease protein leves
Bax	-
BCL-2	Increase protein leves
Bax	Decrease protein leves
Caspase-3	Decrease protein leves
PARP	Decrease protein leves
-	-
MMP-2	Decrease protein leves
MMP-9	Decrease protein leves
Nrf2	Increase protein leves
TLR4	Decrease protein leves
p-p38	Decrease protein leves
IL-1	Decrease protein leves
p-Akt	Increase protein leves
p-mTOR	Increase protein leves
-	-
IL-1β	Decrease protein leves
IL-8	Decrease protein leves
p-JAK2	Increase protein leves
p-STAT3	Increase protein leves
Flotillin-1	Increase protein leves
LDH	Increase protein leves
Caspase-3	Increase protein leves
-	-
BCL-2	Increase protein leves
Caspase-3	Decrease protein leves
Caspase-3	Decrease protein leves
LC3 II	Decrease protein leves
HIF-1α	Decrease protein leves

-	-
NRF2	Increase protein leves
TFAM	Increase protein leves
NRF2	-
TFAM	-
CD11b	-
NF-κB	Decrease protein leves
JNK	Decrease protein leves
iNOS	Decrease protein leves
COX-2	Decrease protein leves
-	-
MMP-9	Decrease protein leves
TIMP-1	Increase protein leves
-	-
Sirt1	Increase protein leves
Caspase-3	Decrease protein leves
IL-1β	Decrease protein leves
IL-1β	Decrease protein leves
IL-1β	-
IL-6	-
TNF-α	-
p38	Decrease protein leves
MAPK	Decrease protein leves
Iba1	Decrease protein leves
Bax	Increase protein leves
BCL-2	Decrease protein leves
NR2B	Decrease protein leves
-	-
IL-1β	-
IL-6	-
TNF-α	-
IFN-γ	-
IL-10	-
TGFβ	-
IL-1β	Decrease protein leves
IL-6	Decrease protein leves
IL-2	Decrease protein leves
IL-8	Decrease protein leves
TNF-α	Decrease protein leves
LDH	Decrease protein leves
TNF-α	Decrease protein leves
IL-6	Decrease protein leves
IL-8	Decrease protein leves
NF-κB	Decrease protein leves
IL-6	Decrease protein leves
TNF-α	Decrease protein leves

NeuN	Increase protein leves
NLRP3	Decrease protein leves
ASC	Decrease protein leves
Caspase-3	Decrease protein leves
IL-1β	Decrease protein leves
p62	Decrease protein leves
-	-
-	-
SOD	Increase protein leves
MDA	Decrease protein leves
ET-1	Decrease protein leves
TNF-α	Decrease protein leves
NF-κB	Decrease protein leves
TLR4	Decrease protein leves
Caspase-3	Decrease protein leves
p-MEK1	Decrease protein leves
p-MEK2	Decrease protein leves
p-ERK1	Decrease protein leves
p-ERK2	Decrease protein leves
COX-2	Decrease protein leves
p-MEK1	-
p-MEK2	-
p-ERK1	-
p-ERK2	-
COX-2	-
-	-
Caspase-3	Decrease protein leves
Caspase-3	Decrease protein leves
Caspase-3	Decrease protein leves
p-ERK1	Increase protein leves
p-ERK2	Increase protein leves
p-JNK	Increase protein leves
IL-1β	Decrease protein leves
MDA	Decrease protein leves
SOD	Increase protein leves
Survivin	Increase protein leves
-	-
ICAM-1	Decrease protein leves
TLR4	Decrease protein leves
Fas	-
FasL	-
Caspase-8	-
Bax	-
BCL-2	-
Caspase-8	Increase protein leves
Bid	Increase protein leves

Caspase-3	Increase protein leves
Cyto C	Increase protein leves
-	-
NLRP3	Decrease protein leves
Caspase-1	Decrease protein leves
IL-1β	Decrease protein leves
GSDMD	Decrease protein leves
GSDMD-N	Decrease protein leves
-	-
Caspase-3	Decrease protein leves
BCL-2	Decrease protein leves
Bax	Decrease protein leves
NOX2	Decrease protein leves
iNOS	Decrease protein leves
Caspase-3	-
NRF2	Increase protein leves
GFAP	Decrease protein leves
NeuN	Increase protein leves
IL-1β	Decrease protein leves
IL-6	Decrease protein leves
TNF-α	Decrease protein leves
-	-
IL-6	Decrease protein leves
IL-1β	Decrease protein leves
TNF-α	Decrease protein leves
SOD	Increase protein leves
-	-
HO-1	Increase protein leves
Nqo1	Increase protein leves
SOD	Increase protein leves
p-Akt	Increase protein leves
p-Nrf2	Increase protein leves
Nrf2	Increase protein leves
-	-
Bax	Decrease protein leves
BCL-2	Decrease protein leves
-	-
TNF-α	Decrease protein leves
IL-1β	Decrease protein leves
LDH	Decrease protein leves
-	-
Bax	Decrease protein leves
BCL-2	Decrease protein leves
ROS	Decrease protein leves
NO	Decrease protein leves
iNOS	Decrease protein leves

TNF-α	Decrease protein leves
VEGF	Increase protein leves
TNF-α	Decrease protein leves
-	-
Bax	Decrease protein leves
BCL-2	Decrease protein leves
Bax	-
BCL-2	-
Apaf-1	Decrease protein leves
Bad	Decrease protein leves
Caspase-3	Decrease protein leves
BCL-2	Increase protein leves
Apaf-1	-
Bad	-
Caspase-3	-
BCL-2	-
-	-
Caspase-3	Decrease protein leves
BDNF	Increase protein leves
CREB	Increase protein leves
BCL-2	Decrease protein leves
BCL-2	Increase protein leves
Bax	Decrease protein leves
-	-
ROS	-
GLT-1	Increase protein leves
BCL-2	Increase protein leves
-	-
Glu	Decrease protein leves
Asp	Decrease protein leves
MDA	Decrease protein leves
MMP-3	Decrease protein leves
-	-
-	-
CD16	-
Iba1	-
TNF-α	-
IL-1β	-
CCL3	-
-	-
IL-1β	Decrease protein leves
IL-6	Decrease protein leves
MPO	Decrease protein leves
TNF-α	Decrease protein leves
MDA	Decrease protein leves
SOD	Decrease protein leves

p53	Decrease protein leves
Bax	Decrease protein leves
BCL-2	Decrease protein leves
Dihydroethidium	Decrease protein leves
8-hydroxyguanine	Decrease protein leves
4-hydroxy-2-nonenal	Decrease protein leves
SOD1	Decrease protein leves
SOD2	Decrease protein leves
GFAP	Decrease protein leves
4-hydroxy-2-noneal	Decrease protein leves
Superoxide	Decrease protein leves
SOD1	Increase protein leves
SOD2	Increase protein leves
-	-
BDNF	Increase protein leves
-	-
-	-
-	-
Iba1	Decrease protein leves
GFAP	Decrease protein leves
BDNF	Increase protein leves
-	-
iNOS	Decrease protein leves
COX-2	Decrease protein leves
p53	Increase protein leves
iNOS	-
COX-2	-
p53	-
iNOS	Decrease protein leves
COX-2	Decrease protein leves
TNF-α	Decrease protein leves

Method	RNA expression
Western blot	-
-	Downregulated RNA expression
Western blot	-
-	Upregulated RNA expression
Western blotting	-
Western blot	-
Western blot	-
Western blot	-
-	Upregulated RNA expression
-	Upregulated RNA expression
-	Upregulated RNA expression
Western blot	-
-	Downregulated RNA expression
Western blot	-
Western blot	-
ELISA	-
Western blot	-
Western blot	-
-	Upregulated RNA expression
-	Upregulated RNA expression
ELISA	-
ELISA	-
ELISA	-
Western blot	-
Western blot	-
Western blot	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blot	-
Western blot	-
Western blot	-
Western blot / Immunofuorescence	-
Western blot / Immunofuorescence	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blotting	-
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression

UPLC–MS/MS MRM chromatograms	-
UPLC–MS/MS MRM chromatograms	-
UPLC–MS/MS MRM chromatograms	-
UPLC–MS/MS MRM chromatograms	-
UPLC–MS/MS MRM chromatograms	-
Western blot	-
Western blot	-
ELISA	-
-	-
Western blot / Immunochemistry	-
Western blot / Immunochemistry	-
Western blot / Immunochemistry	-
Western blot / Immunochemistry	-
ELISA	-
ELISA	-
ELISA	-
Western blot / Immunofuorescence	-
Western blot / Immunofuorescence	-
Western blot / Immunofuorescence	-
-	Upregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
Immunofluorescence	-
Immunofluorescence	-
-	Upregulated RNA expression
-	Upregulated RNA expression
-	Upregulated RNA expression
ELISA	-
Western blot	-
Western blot	-
Western blot	-
-	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
ELISA	-
ELISA	-
ELISA	-
ELISA	-
ELISA	-
ELISA	-
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression

-	Downregulated RNA expression
-	Downregulated RNA expression
Western blot	-
-	Downregulated RNA expression
-	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
Western blot	Upregulated RNA expression
-	-
Western blot	-
-	Downregulated RNA expression
-	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
-	-
Immunochemistry	-
Western Blotting / ELISA	-
Western Blotting / ELISA	-
-	-
-	Upregulated RNA expression
-	Upregulated RNA expression
-	Upregulated RNA expression
Western blotting / Inmunohistochemistry	-
-	-
-	-
Western Blot	-
Western Blot	-
Western Blot	-
-	-
ELISA	-
ELISA	-
ELISA	-
Western blotting	-
Western blotting	-
-	Upregulated RNA expression
-	Upregulated RNA expression
Western Blot	-
-	Upregulated RNA expression

-	Upregulated RNA expression
-	-
Immunohistochemistry	-
Immunohistochemistry	-
Immunohistochemistry	-
Immunohistochemistry	-
Immunohistochemistry	-
Immunohistochemistry	-
-	-
Immunohistochemistry	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
Western Blot / immunochemistry	-
-	Upregulated RNA expression
Western Blot / immunochemistry	-
-	Downregulated RNA expression
Western Blot / immunochemistry	-
Western Blot / immunochemistry	-
Western Blot / immunochemistry	-
Western Blot / immunochemistry	-
-	-
Western blot / confocal microscopy	-
Western blot / confocal microscopy	-
Western blotting	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
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Western blot	-
-	-
Western blotting	-
Western blotting	-
Western blotting	-
Western blot	-
Western blot	-

-	-
Western blotting / immunochemistry	-
Western blotting / immunochemistry	-
-	Upregulated RNA expression
-	Upregulated RNA expression
-	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
-	-
Western blot	-
Western blot	-
-	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
Western blot	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
Western blot	-
-	-
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Downregulated RNA expression
-	Upregulated RNA expression
-	Upregulated RNA expression
ELISA	-
ELISA	-
ELISA	-
ELISA	-
ELISA	-
LDH cytotoxicity detection kit	-
ELISA	-
ELISA	-
ELISA	-
Western blot	-
Western blot	-
Western blot	-

Western blot	-
Western blotting / ELISA	-
Western blotting / ELISA	-
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Dai J, Chen L, Qiu YM, Li SQ, Xiong WH, Yin YH, Jia F, Jiang JY. Activations of GABAergic signaling, HSP70 and M
Dai J, Chen L, Qiu YM, Li SQ, Xiong WH, Yin YH, Jia F, Jiang JY. Activations of GABAergic signaling, HSP70 and M
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Li C, Sui C, Wang W, Yan J, Deng N, Du X, Cheng F, Ma X, Wang X, Wang Q. Baicalin Attenuates Oxygen-Glucose
Li C, Sui C, Wang W, Yan J, Deng N, Du X, Cheng F, Ma X, Wang X, Wang Q. Baicalin Attenuates Oxygen-Glucose
Li C, Sui C, Wang W, Yan J, Deng N, Du X, Cheng F, Ma X, Wang X, Wang Q. Baicalin Attenuates Oxygen-Glucose
Zheng WX, Cao XL, Wang F, Wang J, Ying TZ, Xiao W, Zhang Y, Xing H, Dong W, Xu SQ, Min ZL, Wu FJ, Hu XM. B
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Yang S, Wang H, Yang Y, Wang R, Wang Y, Wu C, Du G. Baicalein administered in the subacute phase ameliorat
Yang S, Wang H, Yang Y, Wang R, Wang Y, Wu C, Du G. Baicalein administered in the subacute phase ameliorat
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Fang M, Yuan Y, Lu J, Li HE, Zhao M, Ling EA, Wu CY. Scutellarin promotes microglia-mediated astrogliosis coup
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Wang S, Wang H, Guo H, Kang L, Gao X, Hu L. Neuroprotection of Scutellarin is mediated by inhibition of micro

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Deng Y, Xiong D, Yin C, Liu B, Shi J, Gong Q. Icariside II protects against cerebral ischemia-reperfusion injury in r
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