

Table S1 119 chemical compounds isolated from CM.

No.	Compounds	Class	Molecular formula	REF.
1	Paeoniflorigenone	Monoterpenes	C ₁₇ H ₁₈ O ₆	[1]
2	Paeonisuffral	Monoterpenes	C ₁₀ H ₁₄ O ₅	[2]
3	Isopaeonisuffral	Monoterpenes	C ₁₀ H ₁₄ O ₅	[3]
4	Paeonisuffrone	Monoterpenes	C ₁₀ H ₁₄ O ₄	[3]
5	Deoxypaeonisuffrone	Monoterpenes	C ₁₀ H ₁₄ O ₃	[3]
6	(-)-Paeonisuffrone	Monoterpenes	C ₁₄ H ₁₈ O ₄	[4]
7	Paeonisothujone	Monoterpenes	C ₁₀ H ₁₄ O ₃	[3]
8	Paeoniflorin A	Monoterpenes	C ₁₁ H ₁₄ O ₄	[5]
9	Paeoniflorin B.	Monoterpene glycosides	C ₃₆ H ₄₂ O ₁₇	[6]
10	3-O-Methylpaeonisuffral	Monoterpenes	C ₁₁ H ₁₆ O ₅	[7]
11	6-Methoxypaeoniflorigenone (6-methoxypaeonigenone)	Monoterpenes	C ₁₈ H ₂₀ O ₆	[1]
12	Paeoniflorin	Monoterpene glycosides	C ₂₃ H ₂₈ O ₁₁	[4,7]
13	Oxypaeoniflorin	Monoterpene glycosides	C ₂₃ H ₂₈ O ₁₂	[4]
14	Albiflorin	Monoterpene glycosides	C ₂₃ H ₂₈ O ₁₁	[4]
15	Gallylpaeoniflorin	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₅	[7]
16	Gallyloxypaeoniflorin	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₆	[8]
17	Benzoylpaeoniflorin (6'-O-Benzoyl Paeoniflorin)	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₂	[7]
18	Mudanpioside A	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[9]
19	Mudanpioside B	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₄	[10,11]]
20	Mudanpioside C (Oxybenzoylpaeoniflorin)	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₃	[9]
21	Mudanpioside D (4"-Methoxy-paeoniflorin)	Monoterpene glycosides	C ₂₄ H ₃₀ O ₁₂	[9]
22	Mudanpioside E	Monoterpene glycosides	C ₂₄ H ₃₀ O ₁₃	[9]
23	Mudanpioside F	Monoterpene glycosides	C ₁₆ H ₂₄ O ₈	[9]
24	Mudanpioside G	Monoterpene glycosides	C ₁₆ H ₂₄ O ₈	[12]
25	Mudanpioside H	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₄	[12]
26	Mudanpioside I	Monoterpene glycosides	C ₂₃ H ₂₈ O ₁₁	[12]
27	Mudanpioside J	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₄	[4]
28	α -Benzoyloxypaeoniflorin	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₃	[13]
29	β -Benzoyloxypaeoniflorin	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₃	[13]
30	6-O-Vanillyloxypaeoniflorin	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₅	[14]
31	Suffrupaeonidanin A	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[15]
32	Suffrupaeonidanin B	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₄	[15]
33	Suffrupaeonidanin C	Monoterpene glycosides	C ₃₂ H ₃₅ O ₁₃	[15]
34	Suffrupaeonidanin D	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₂	[16]
35	Suffrupaeonidanin E	Monoterpene glycosides	C ₃₂ H ₃₆ O ₁₃	[16]
36	Suffrupaeonidanin F	Monoterpene glycosides	C ₃₂ H ₃₆ O ₁₃	[16]

37	Paeonidanin A	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₂	[6]
38	Paeonidanin C	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[5]
39	Suffruiabiosides A	Monoterpene glycosides	C ₃₆ H ₄₂ O ₁₈	[17]
40	Suffruiabiosides B	Monoterpene glycosides	C ₃₆ H ₄₂ O ₁₇	[17]
41	Paeoniside A	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₂	[18]
42	Paeoniside B	Monoterpene glycosides	C ₃₀ H ₃₂ O ₁₅	[18]
43	Suffrupaeoniflorin A	Monoterpene glycosides	C ₃₆ H ₄₂ O ₁₈	[16]
44	Suffrupaeoniflorin B	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[16]
45	Oxypaeonidanin	Monoterpene glycosides	C ₂₄ H ₃₀ O ₁₂	[6]
46	9-Epi-oxypaeonidanin	Monoterpene glycosides	C ₂₄ H ₃₀ O ₁₂	[6]
47	8-O-benzoylpaeonidanin	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₂	[19]
48	9-O-butyloxypaeonidanin	Monoterpene glycosides	C ₂₇ H ₃₆ O ₁₂	[6]
49	9-O-butylpaeonidanin	Monoterpene glycosides	C ₂₇ H ₃₆ O ₁₁	[6]
50	p-Hydroxylbenzoylpaeonidanin	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[6]
51	4-O-methylsuffrupaeoniflorin B	Monoterpene glycosides	C ₃₂ H ₃₆ O ₁₃	[16]
52	Paeoniflorin-4-ethyl ether	Monoterpene glycosides	C ₂₅ H ₃₂ O ₁₁	[20]
53	4-O-butylpaeoniflorin	Monoterpene glycosides	C ₂₇ H ₃₆ O ₁₁	[19]
54	4-O-methylmoudanpioside C	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[5]
55	4-O-methylbenzoyloxy paeoniflorin	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₃	[6]
56	Oxypaeoniflorin sulfonate.	Monoterpene glycosides	C ₂₃ H ₂₇ O ₁₁	[6]
57	4-O-methyloxypaeoniflorin	Monoterpene glycosides	C ₂₄ H ₃₀ O ₁₂	[6]
58	4-O-methylgalloyloxy paeoniflorin	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₆	[6]
59	4-O-butyloxypaeoniflorin.	Monoterpene glycosides	C ₂₇ H ₃₆ O ₁₂	[6]
60	4-O-methylpaeoniflorin	Monoterpene glycosides	C ₂₄ H ₃₀ O ₁₁	[6,18]
]
61	8-O-debenzoylpaeoniflorin	Monoterpene glycosides	C ₁₆ H ₂₄ O ₁₀	[6]
62	4-O-methylbenzoylpaeoniflorin	Monoterpene glycosides	C ₃₁ H ₃₄ O ₁₂	[6]
63	Quercetin	Flavonoids	C ₁₅ H ₁₀ O ₇	[4]
64	Catechin	Flavonoids	C ₁₅ H ₁₄ O ₆	[4,21]
65	Kaempferol	Flavonoids	C ₁₅ H ₁₀ O ₆	[4]
66	Flavan-3-ols catechin	Flavonoids	C ₁₅ H ₁₄ O ₆	[22]
67	Epicatechin-3-O-gallate	Flavonoids	C ₂₂ H ₁₈ O ₁₀	[22]
68	Dimeric proanthocyanidin epicatechin-(4 β → 8)-catechin	Flavonoids	C ₃₀ H ₂₆ O ₁₂	[22]
69	(+)-Catechin-7-O- β -glucopyranoside	Flavonoids	C ₂₂ H ₂₆ O ₁₀	[23]
70	1,2,3,4,6-Penta-O-galloyl- β -D-glucose	Tannins	C ₄₁ H ₃₂ O ₂₆	[21]
71	Trigalloyl-glucoses	Tannins	C ₂₇ H ₂₄ O ₁₈	[22]
72	(-)-Epigallocatechin gallate	Tannins	C ₂₂ H ₁₈ O ₉	[24]
73	β -Sitosterol	Triterpenoids	C ₂₉ H ₅₀ O	[25]
74	Daucosterol (β -sitosterol- β -D-glucoside)	Triterpenoids	C ₃₅ H ₆₀ O ₆	[25]
75	Campesterol	Triterpenoids	C ₂₈ H ₄₈ O	[25]
76	Palbinone	Triterpenoids	C ₂₂ H ₃₀ O ₄	[25]
77	Hederagenin	Triterpenoids	C ₃₀ H ₄₈ O ₄	[18]
78	Oleanolic acid	Triterpenoids	C ₃₀ H ₄₈ O ₃	[18]

79	Betulinic acid	Triterpenoids	C ₃₀ H ₄₈ O ₃	[25]
80	Mudanpinoic acid A	Triterpenoids	C ₃₀ H ₄₆ O ₃	[26]
81	30-Norhederagenin	Triterpenoids	C ₂₉ H ₄₄ O ₄	[1]
82	Ursolic acid	Triterpenoids	C ₃₀ H ₄₈ O ₃	[25]
83	Paeonol	Phenols	C ₉ H ₁₀ O ₃	[27]
84	Paeonoside	Phenols	C ₁₅ H ₂₀ O ₈	[4,27]
85	Paeonolide	Phenols	C ₂₀ H ₂₈ O ₁₂	[8]
86	Suffruticoside A	Phenols	C ₂₇ H ₃₂ O ₁₆	[8]
87	Suffruticoside B	Phenols	C ₂₇ H ₃₂ O ₁₆	[8]
88	Suffruticoside C	Phenols	C ₂₇ H ₃₂ O ₁₆	[8]
89	Suffruticoside D	Phenols	C ₂₇ H ₃₂ O ₁₆	[8]
90	Suffruticoside E	Phenols	C ₂₆ H ₃₈ O ₁₇	[8]
91	Apiopaeonoside	Phenols	C ₂₀ H ₂₈ O ₁₂	[4]
92	Phenol	Phenols	C ₆ H ₆ O	[4]
93	<i>p</i> -Hydroxybenzoic acid	Phenols	C ₇ H ₆ O ₃	[4]
94	2,5-Dihydroxy-4-methoxyacetophenone	Phenols	C ₈ H ₈ O ₃	[27]
95	Methyl 3-hydroxy-4-methoxybenzoate	Phenols	C ₉ H ₁₀ O ₄	[27]
96	<i>trans</i> -Caffeic acid stearyl ester	Phenols	C ₂₇ H ₄₄ O ₄	[26]
97	Gallic acid	Phenols	C ₇ H ₆ O ₅	[4]
98	Me gallate (Gallicin)	Phenols	C ₈ H ₈ O ₅	[4]
99	Gallacetophenone	Phenols	C ₈ H ₈ O ₄	[24]
100	Mudanoside A	Phenols	C ₁₄ H ₁₈ O ₉	[12]
101	Mudanoside B	Phenols	C ₁₈ H ₂₄ O ₁₄	[26]
102	Mudanoside C	Phenols	C ₁₅ H ₂₀ O ₉	[28]
103	Acetovanillone	Phenols	C ₉ H ₁₀ O ₃	[7]
104	Benzoic acid	Phenols	C ₇ H ₆ O ₂	[4]
105	<i>p</i> -Hydroxyacetophenone	Phenols	C ₁₉ H ₂₆ O ₁₂	[4]
106	3-Hydroxy-4-methoxybenzoic acid	Phenols	C ₈ H ₈ O ₄	[4]
107	Resacetophenone	Phenols	C ₈ H ₈ O ₃	[4]
108	2,3-Dihydroxy-4-methoxyacetophenone	Phenols	C ₉ H ₁₀ O ₄	[4]
109	3-Hydroxy-4-methoxyacetophenone	Phenols	C ₉ H ₁₀ O ₃	[4]
110	3-O-D-glucopyranosyl-4-methoxyacetophenone	Phenols	C ₁₅ H ₂₀ O ₈	[28]
111	Iriflophenone 2-O- β -D-glucopyranoside	Phenols	C ₁₉ H ₂₀ O ₁₀	[28]
112	Adenosine	Others	C ₁₀ H ₁₃ N ₅ O ₄	[4]
113	Uridine	Others	C ₁₉ H ₁₄ N ₂ O ₆	[23]
114	1-Tryptophan	Others	C ₁₁ H ₁₂ N ₂ O ₂	[23]
115	Thymidine	Others	C ₁₀ H ₁₆ N ₂ O ₅	[23]
116	Ainsliaside E	Others	C ₂₁ H ₃₈ O ₉	[23]
117	Paesuffrioside	Others	C ₁₄ H ₂₁ NO ₇	[23]
118	Oxo-acetic acid 2-ethoxy-4-(3-hydroxy-2-oxopropyl) phenyl ester	Others	C ₁₃ H ₁₄ O ₆	[29]
119	5-Hydroxy-3S-hydroxymethyl-6-methyl-2,3-dihydrobenzofuran	Others	C ₁₀ H ₁₂ O ₃	[1]

VP	CORTEX	O (TLC)	O (Wood, Foreign matter)	O ($\geq 13.0\%$)	O ($\geq 5.0\%$)	X	X	Paeonol	\leq	1.2%
	PAEONIAE							(Absorption)		
	SUFFRUTICOS									
	AE									
H	CORTEX	O (TLC)	X	O ($\geq 13.0\%$, Water)	O ($\geq 5.0\%$)	O ($\geq 1.0\%$)	\leq	18.0%	Paeonol	\leq 1.1%
P	MOUTAN						(Ethanol-soluble extract)		(HPLC) Paeoniflorin $\leq 0.49\%$ (HPLC)	
TP	MOUTAN	O (TLC)	X	O ($\geq 13.0\%$, Water)	O ($\geq 5.0\%$)	O ($\geq 1.0\%$)	X		Paeonol	\leq 1.0%
	RADICIS								(HPLC) Paeoniflorin	
	CORTEX									$\leq 0.5\%$ (HPLC)

4. TLC Conditions of Identification for CM in JP, CP, KP, VP, HP and TP

Latin name	TLC condition (1) developing solvent	(2) detection	(3) color tone (4) marker compounds		
			on TLC		
CP	CORTEX	cyclohexane / ethyl acetate (3 : 1)	5% freric chloride in ethanol (acidifie with HCl)	bluish-brown	paeonol
	MOUTAN				
JP	MOUTAN	hexane / ethyl acetate (1 : 1)	UV 254 nm		paeonol
	CORTEX				
KP	MOUTAN	hexane / ethyl acetate (1 : 1)	UV 254 nm		paeonol
	CORTEX				
TP	MOUTAN	hexane / ethyl acetate (3 : 1)	UV 254 nm		paeonol
	RADICIS				
VP	CORTEX	cyclohexane / ethyl acetate (3 : 1)	5% freric chloride in ethanol		paeonol
	PAEONIAE				
SUFFRUTICOS					
AE					
HP	CORTEX	Chloroform/acetic ether/Methanol/	50%(v/v) dilute sulphuric acid and	Same	color Paeonol
	MOUTAN	formic acid(40:5:10:0.2)	2%(w/v) p-hydroxyl benzaldehyde	with reference	paeoniflorin
methanol solution					
TP	MOUTAN	hexane / ethyl acetate (3 : 1)	UV 254 nm		paeonol
	RADICIS				
CORTEX					

5. Assay conditions for CM in JP, CP, KP, VP, HP and TP

Latin name	Assay (↑ : Not less than)	(1) method	(2) developing solvent	(3) detection	
CP CORTEX MOUTAN	Paeonol ↑ 1.2%	HPLC (ODS column)	methanol / water (45 : 55)		UV 274 nm
JP MOUTAN CORTEX	Paeonol ↑ 1.0%	HPLC (ODS column, I.D. 4-6 mm x 15-25 cm, 5-10μm)	1) water / acetonitrile / acetic acid (100 : 35 : 2) 2) 20 °	3) adjust flow rate to elute paeonol at ca.14 min	UV 274 nm
KP MOUTAN CORTEX RADICIS	Paeonol ↑ 1.0%	HPLC (ODS column, I.D. 4-6 mm x 15-25 cm, 5-10 μm)	1) water / acetonitrile / acetic acid (100 : 35 : 2) 2) 20 °	3) adjust flow rate to elute paeonol at ca.14 min	UV 274 nm
VP CORTEX PAEONIAE SUFFRUTICOSAE	Paeonol ↑ 1.0%	Absorption	water		UV 274 nm

H	CORTEX MOUTAN	Paeonol ↑ 1.1%	HPLC (ODS column, I.D. 4-6 mm x 15-25 cm, 5-10 µm)	Gradient elution with water and acetonitrile	UV 230 nm
P		Paeoniflorin ↑ 0.49%			
TP	MOUTAN RADICIS CORTEX	Paeonol ↑ 1.0% Paeoniflorin ↑ 0.5%	HPLC (ODS column, I.D. 4.6 x250mm, 5µm)	Water/acetonitrile/acetic acid(65:35:2) for paeonol; water/acetonitrile(4:1) for paeoniflorin	UV 274 nm (paeonol) UV 230 nm (paeoniflorin)

PS: (●:have, O: Established, X: Not established, : ≥Not more than, : ≤Not less than)

1. Ha, D.T.; Ngoc, T.M.; Lee, I. Inhibitors of aldose reductase and formation of advanced glycation end-products in moutan cortex (*paeonia suffruticosa*). *J. Nat. Prod.* **2009**, *8*, 1465-1470.
2. Yoshikawa, M.; Ohta, T.; Kawaguchi, A.; Matsuda, H. Bioactive constituents of chinese natural medicines. V. Radical scavenging effect of moutan cortex. (1): Absolute stereostructures of two monoterpenes, paeonisuffrone and paeonisuffral. *Chemical & pharmaceutical bulletin* **2000**, *48*, 1327-1331.
3. Yoshikawa, M.; Harada, E.; Minematsu, T. Absolute stereostructures of paeonisothujone, a novel skeletal monoterpene ketone, and deoxypaeonisuffrone, and isopaeonisuffral, two new monoterpenes, from mouan cortex. *Chem. Pharm. Bull* **1994**, *42*, 736-738.
4. He, C.N.; Peng, Y.; Zhang, Y.C.; al., e. Phytochemical and biological studies of paeoniaceae. *CHEMISTRY & BIODIVERSITY* **2010**, *7*.
5. Ding, L.; Jiang, Z.; Liu, Y.; Chen, L.; Zhao, Q.; Yao, X.; Zhao, F.; Qiu, F. Monoterpoid inhibitors of no production from *paeonia suffruticosa*. *Fitoterapia* **2012**, *83*, 1598-1603.
6. Ding, L.; Zhao, F.; Chen, L.; Jiang, Z.; Liu, Y.; Li, Z.; Qiu, F.; Yao, X. New monoterpene glycosides from *paeonia suffruticosa* andrews and their inhibition on no production in lps-induced raw 264.7 cells. *Bioorg Med Chem Lett* **2012**, *22*, 7243-7247.
7. Shao-Hua Wu; Da-Gang Wu; Chen, Y.-W. Chemical constituents and bioactivities of plants from the genus *paeonia*. *CHEMISTRY & BIODIVERSITY* **2010**, *7*, 90-104.
8. Matsuda, H.; Ohta, T.; Kawaguchi, A.; Yoshikawa, M. Bioactive constituents of chinese natural medicines. Vi. Moutan cortex.(2): Structures and radical scavenging effects of suffruticosides a, b, c, d, and e and galloyl-oxypaeoniflorin. *Chemical and pharmaceutical bulletin* **2001**, *49*, 69-72.
9. Lin, H.C.; Ding, H.Y.; Wu, T.S.; Wu, P.L. Monoterpene glycosides from *paeonia suffruticosa*. *Phytochemistry* **1996**, *41*, 237-242.
10. HANG-CHING LIN; HSIOU-YU DING; TIAN-SHUNG WU; WU., P.-L. Monoterpne glycosides from *paeonia suffruticosa*. *Phytochemistry* **1995**, *41*, 237-242.
11. Wu, M.G.; Gu, Z.Y. Screening of bioactive compounds from moutan cortex and their anti-inflammatory activities in rat synoviocytes. *Evidence-based complementary and alternative medicine : eCAM* **2009**, *6*, 57-63.
12. Hsiou-Yu, D. Glycosides from *paeonia suffruticosa*. *Chem, Pharm, Bull* **1999**.
13. Zhou, S.L.; Zou, X.H.; Zhou, Z.Q.; Liu, J.; Xu, C.; Yu, J.; Wang, Q.; Zhang, D.M.; Wang, X.Q.; Ge, S., et al. Multiple species of wild tree peonies gave rise to the 'king of

- flowers', *paeonia suffruticosa* andrews. *Proceedings. Biological sciences / The Royal Society* **2014**, 281.
- 14. Ren-Bo An , H.-C.K., Sung-Hee Lee. A new monoterpenoid glycoside and antibacterial monoterpenoid glycosides from *paeonia suffruticosa*. **2006**.
 - 15. Yang, Y.; Hu, H.Y.; Yu, N.J.; Zhang, Y.; Zhao, Y.M. Three new paeonidin-type monoterpenoid glycosides from *paeonia suffruticosa* andr. *Helvetica Chimica Acta* **2010**, 93, 1622-1627.
 - 16. Song, W.H.; Cheng, Z.H.; Chen, D.F. Anticomplement monoterpenoid glucosides from the root bark of *paeonia suffruticosa*. *Journal of natural products* **2014**, 77, 42-48.
 - 17. Furuya, R.; Hu, H.; Zhang, Z.; Shigemori, H. Suffruyabiosides a and b, two new monoterpenoid diglycosides from moutan cortex. *Molecules (Basel, Switzerland)* **2012**, 17, 4915-4923.
 - 18. Zhu, X.; Fang, Z.H. New monoterpenoid glycosides from the root cortex of *paeonia suffruticosa* and their potential anti-inflammatory activity. *Natural Product Research* **2014**, 28, 301-305.
 - 19. Ha, D.T.; Trung, T.N.; Hien, T.T.; Dao, T.T.; Yim, N.; Ngoc, T.M.; Oh, W.K.; Bae, K. Selected compounds derived from moutan cortex stimulated glucose uptake and glycogen synthesis via ampk activation in human hepg2 cells. *J. Ethnopharmacol.* **2010**, 131, 417-424.
 - 20. WANG, S.J.; YANG, Y.C.; LI, S. A new paeoniflorin derivative isolated from the root bark ethanol extract of *paeonia suffruticosa*. *China Journal of Chinese Materia Medica* **2005**, 30, 759-761.
 - 21. Satoh, K.; Nagai, F.; et al. Inhibition of Na⁺, K⁺-ATPase by 1, 2, 3, 4, 6-Penta-O-galloyl-β-D-glucose, a major constituent of both moutan cortex and *paeoniae radix*. *Biochemical pharmacology* **1997**, 53, 611-614.
 - 22. Wang, R.; Lechtenberg, M.; Sendker, J.; Petereit, F.; Deters, A.; Hensel, A. Wound-healing plants from tcm: In vitro investigations on selected tcm plants and their influence on human dermal fibroblasts and keratinocytes. *Fitoterapia* **2013**, 84, 308-317.
 - 23. Xiao, K.; Song, Q.H.; Zhang, S.W.; Xuan, L.J. A pyrrole derivative from *paeonia suffruticosa*. *Natural Product Research* **2008**, 22, 1614-1619.
 - 24. Lee, S.-J.; Lee, I.-S.; Mar, W. Inhibition of inducible nitric oxide synthase and cyclooxygenase-2 activity by 1,2,3,4,6-penta-o-galloyl-j3-d-glucose in murine macrophage cells. *Archives of pharmacal research* **2003**, 26, 832-839.
 - 25. Ha Do, T.; Tuan Dao, T.; Thu Nguyen, B.; Nham Nguyen, X.; Ngoc Tran, M.; Yim, N.; Bae, K. Palbinone and triterpenes from moutan cortex (*paeonia suffruticosa*, *paeoniaceae*) stimulate glucose uptake and glycogen synthesis via activation of ampk in insulin-resistant human hepg2 cells. *Bioorg Med Chem Lett* **2009**, 19, 5556-5559.
 - 26. Lin, H.C.; Ding, H.Y.; Wu, Y.C. Two novel compounds from *paeonia suffruticosa*. *J. Nat. Prod.* **1998**, 343-346.
 - 27. Gao Li , C.-S.S., Kyeung-Seon Lee. Protective constituents against sepsis in mice from the root cortex of *paeonia suffruticosa*. *Archives of pharmacal research* **2004**, 27, 1123-1126.,
 - 28. Ding, L.; Zuo, Q.; Li, D.; Feng, X.; Gao, X.; Zhao, F.; Qiu, F. A new phenone from the

- roots of paeonia suffruticosa andrews. *Nat Prod Res* **2016**, 1-8.
29. Choi, Y.H.; Yoo, H.J.; Noh, I.C.; Lee, J.M.; Park, J.W.; Choi, W.S.; Choi, J.H. Bioassay-guided isolation of novel compound from paeonia suffruticosa andrews roots as an il-1beta inhibitor. *Archives of pharmacal research* **2012**, 35, 801-805.