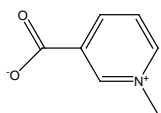
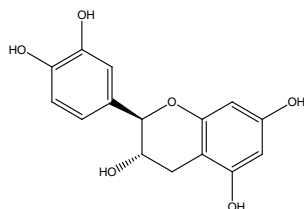


Marrubium alysson L. Ameliorated Methotrexate-Induced Testicular Damage in Mice through Regulation of Apoptosis and miRNA-29a Expression: LC-MS/MS Metabolic Profiling

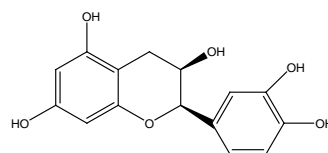
Additional Experimental Detail



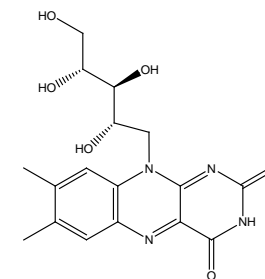
Trigonelline



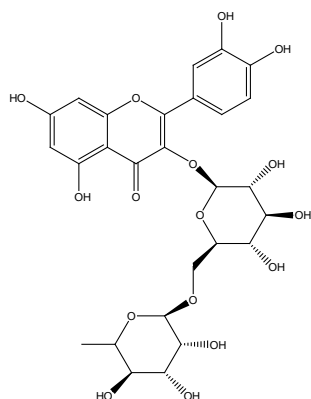
Catechin



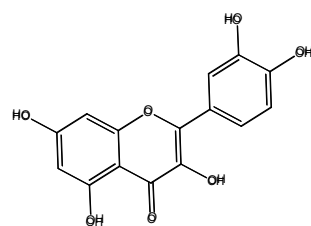
(-)-Epicatechin



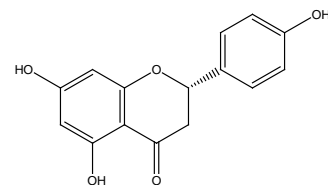
(-)-Riboflavin



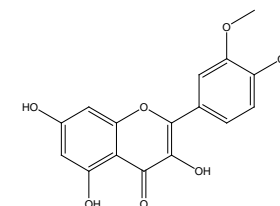
Rutin



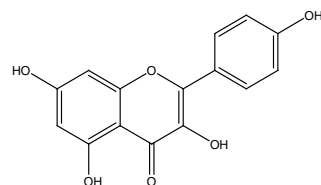
Quercetin



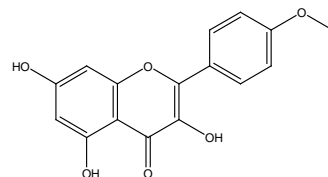
Naringenin



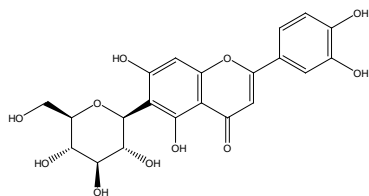
Isorhamnetin



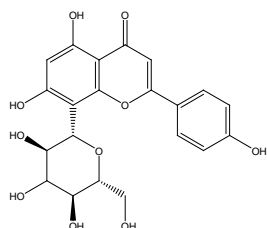
Kaempferol



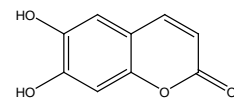
Diosmetin



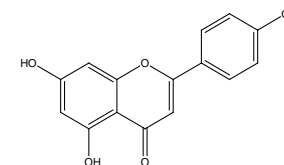
Isoorientin



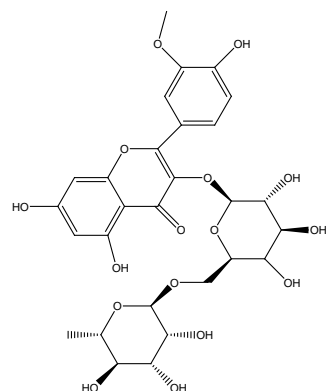
Apigenin 8-C-glucoside



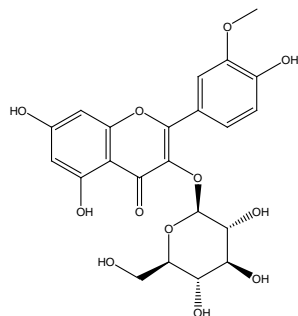
**6,7-dihydroxycoumarin
(Aesculetin)**



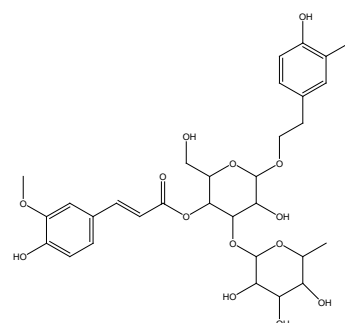
Apigenin



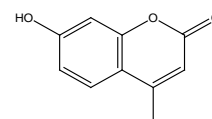
Isorhamnetin-3-O-rutinoside



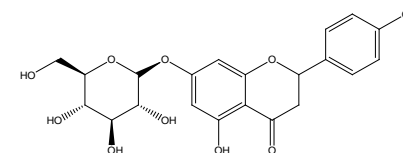
Isorhamnetin-3-O-glucoside



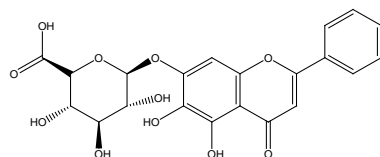
Leucosceptoside A



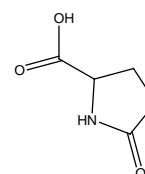
7-hydroxy-4-methylcoumarin



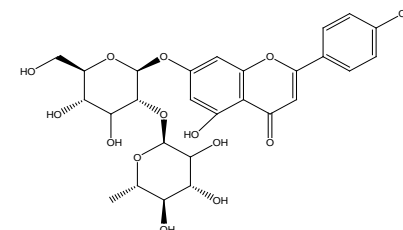
Naringenin-7-O-glucoside



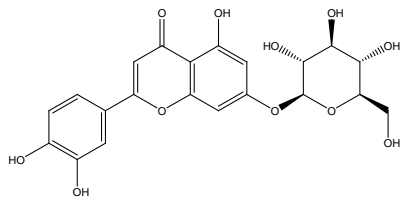
Baicalein-7-O-glucuronide



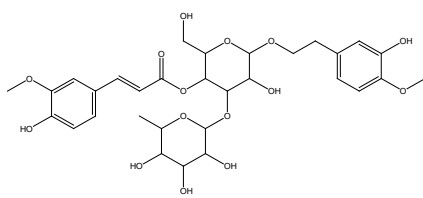
L-5-Oxoproline



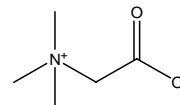
Apigenin 7-O-neohesperidoside



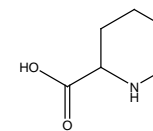
Luteolin-7-O-glucoside



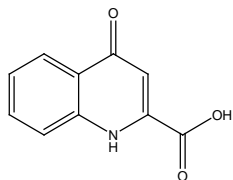
Martynoside



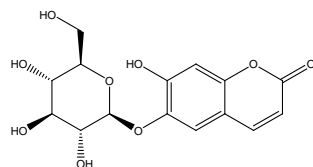
Glycine-Betaine



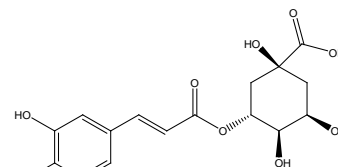
Pipecolate



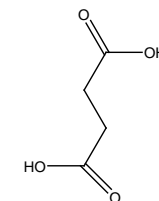
Kynurenic acid



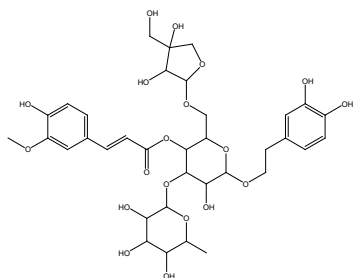
Esculin



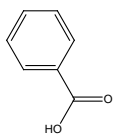
Chlorogenic acid



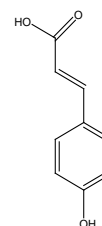
Succinic acid



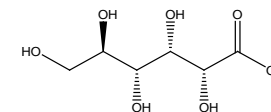
Alyssonoside



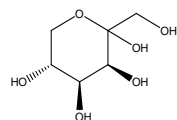
Benzoic acid



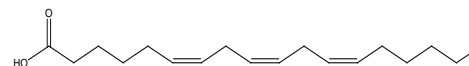
3-(4-hydroxyphenyl)prop-2-enoic acid



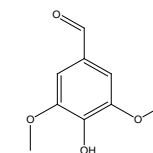
Gluconate



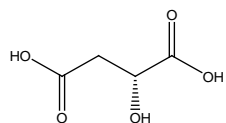
D-(-)-Tagatose



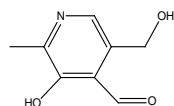
gamma-Linolenic acid



Syringaldehyde



D-(+)-Malic acid



Pyridoxal

Figure S1. Chemical structures of the identified compounds in methanolic extract of *M. alysson* L.

Table S1. Primer sequences and annealing temperatures for the measured genes by real time PCR.

	Forward Primer	Reverse Primer	Annealing Temperature
NF-κb	5'-CAATGGCTACACAGGACCA-3'	5'-CACTGTCACCTGGAACCAGA-3'	52° C
TNF-α	5'-TCTACTGAACTTCGGGGTGATCG-3'	5'-TGATCTGAGTGTGAGGGTCTGGG-3'	56° C
p53	5'-ACCGCCGACCTATCCTTACC-3'	5'-TCTTCTGTACGGCGGTCTCTC-3'	56° C
β-actin	5'-ACGGCCAGGTCATCACTATTG-3'	5'-CAAGAAGGAAGGCTGGAAAAGA-3'	52° C
miRNA-29a	5'-GCGCACTGATTTCTTTGGTGTTTCAG-3'	5'-GCGAGCACAGAATTAATACGAC-3'	51° C
RNU6B	5'-CTCGCTTCGGCAGCACATA-3'	5'-CGCTTCACGAATTTGCGTG-3'	53° C