

Supplementary Materials

# Phenolome of Asian Agrimony Tea (*Agrimonia asiatica* Juz., Rosaceae): LC-MS Profile, $\alpha$ -Glucosidase Inhibitory Potential and Stability

Nina I. Kashchenko \* and Daniil N. Olennikov

Laboratory of Medical and Biological Research, Institute of General and Experimental Biology, Siberian Division, Russian Academy of Science, 6 Sakh'yanyovoy Street, Ulan-Ude 670047, Russia; olennikovdn@mail.ru (D.N.O.)

\* Correspondence: ninkk@mail.ru; Tel.: +79-0216-00-627 (D.N.O.)

Received: date; Accepted: date; Published: date

## Content

**Table S1.** Description of 85 Rosaceous plants used in study.

**Table S2.** Mass spectrometric parameters of compounds 1–60.

**Table S1.** Description of 85 Rosaceous plants used in study.

Species	Collection place	Coordinates	Collection date
<i>Agrimonia pilosa</i> Ledeb.	Republic Buryatia, Kyren (Tunkinsky District)	51°41'15.4501'' N, 102°8'21.8127'' E, 947 m	21.VII.2019
<i>Alchemilla anisopoda</i> Juz.	Republic Buryatia, Kabansk (Kabansky District)	52°2'54.5243'' N, 106°37'34.5456'' E, 461 m	23.VII.2019
<i>A. flavescens</i> Buser	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286'' N, 107°23'54.2239'' E, 506 m	02.VII.2019
<i>A. subcrenata</i> Buser	Republic Buryatia, Severobaykalsk	55°38'56.8229'' N, 109°20'28.5324'' E, 582 m	02.VIII.2019
<i>Armeniaca sibirica</i> (L.) Lam.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>Chamaerhodos erecta</i> (L.) Bunge	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445'' N, 102°28'14.9261'' E, 722 m	17.VII.2019
<i>C. grandiflora</i> (Pall. ex Schult.) Bunge	Republic Buryatia, Tankhoy (Kabansky District)	51°32'59.4879'' N, 105°7'15.1616'' E, 504 m	15.VII.2018
<i>Cotoneaster lucidus</i> Schldtl.	Republic Buryatia, Zaigrayevoy (Zaigraevsky District)	51°51'6.8316'' N, 108°18'36.9388'' E, 639 m	11.VII.2019
<i>Cotoneaster melanocarpus</i> Fisch. ex Blytt	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>C. mongolicus</i> Pojark.	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468'' N, 102°53'40.4121'' E, 724 m	23.VII.2018
<i>C. neopopovii</i> Czerep.	Republic Buryatia, Baunt (Bauntovsky District)	55°15'37.2172'' N, 113°8'57.2040'' E, 1096 m	01.VIII.2019
<i>C. tjuliniae</i> Pojark. ex Peschkova	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286'' N, 107°23'54.2239'' E, 506 m	02.VII.2019
<i>C. uniflorus</i> Bunge	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445'' N, 102°28'14.9261'' E, 722 m	17.VII.2019
<i>Crataegus dahurica</i> Koehne ex C.K.Schneid.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>C. maximowiczii</i> C.K.Schneid.	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468'' N, 102°53'40.4121'' E, 724 m	23.VII.2018

Table S1. Continuation

Species	Collection place	Coordinates	Collection date
<i>C. sanguinea</i> Pall.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>Dasiphora fruticosa</i> (L.) Rydb.	Republic Buryatia, Tankhoy (Kabansky District)	51°32'59.4879'' N, 105°7'15.1616'' E, 504 m	15.VII.2018
<i>Dryas grandis</i> Juz.	Republic Buryatia, Kyren (Tunkinsky District)	51°41'15.4501'' N, 102°8'21.8127'' E, 947 m	21.VII.2019
<i>D. incisa</i> Juz.	Republic Buryatia, Kyren (Tunkinsky District)	51°41'15.4501'' N, 102°8'21.8127'' E, 947 m	21.VII.2019
<i>D. integrifolia</i> subsp. <i>crenulata</i> (Juz.) Kozhev.	Republic Buryatia, Kyren (Tunkinsky District)	51°41'15.4501'' N, 102°8'21.8127'' E, 947 m	21.VII.2019
<i>D. oxyodonta</i> Juz.	Republic Buryatia, Kyren (Tunkinsky District)	51°41'15.4501'' N, 102°8'21.8127'' E, 947 m	21.VII.2019
<i>D. sumnevicii</i> Serg.	Republic Buryatia, Baunt (Bauntovsky District)	55°15'37.2172'' N, 113°8'57.2040'' E, 1096 m	01.VIII.2019
<i>Dasiphora parvifolia</i> (Fisch.) Juz.	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286'' N, 107°23'54.2239'' E, 506 m	02.VII.2019
<i>Fragaria vesca</i> L.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>F. orientalis</i> Losinsk.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>Geum aleppicum</i> Jacq.	Republic Buryatia, Onokhoy (Zaigraevsky District)	51°55'10.1889'' N, 108°3'26.4983'' E, 544 m	03.VII.2019
<i>G. rivale</i> L.	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468'' N, 102°53'40.4121'' E, 724 m	23.VII.2018
<i>Malus baccata</i> (L.) Borkh.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>Padus avium</i> Mill.	Republic Buryatia, Zaigraevoye (Zaigraevsky District)	51°51'6.8316'' N, 108°18'36.9388'' E, 639 m	11.VI.2019
<i>Potentilla acaulis</i> L.	Republic Buryatia, Tankhoy (Kabansky District)	51°32'59.4879'' N, 105°7'15.1616'' E, 504 m	15.VII.2018
<i>P. acervata</i> Soják	Republic Buryatia, Baunt (Bauntovsky District)	55°15'37.2172'' N, 113°8'57.2040'' E, 1096 m	01.VIII.2019
<i>P. adenotricha</i> Vodop.	Republic Buryatia, Onokhoy (Zaigraevsky District)	51°55'10.1889'' N, 108°3'26.4983'' E, 544 m	03.VII.2019
<i>P. anserina</i> L.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018

Table S1. Continuation

Species	Collection place	Coordinates	Collection date
<i>P. arenosa</i> (Turcz.) Juz.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>P. argentea</i> L.	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468'' N, 102°53'40.4121'' E, 724 m	23.VII.2018
<i>P. asperrima</i> Turcz.	Republic Buryatia, Kyakhta (Kyakhtinsky District)	50°22'56.5082'' N, 106°26'58.9522'' E, 853 m	13.VII.2019
<i>P. biflora</i> Willd. ex Schtdl.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>P. chrysantha</i> Trevir.	Republic Buryatia, Onokhoy (Zaigraevsky District)	51°55'10.1889'' N, 108°3'26.4983'' E, 544 m	03.VII.2019
<i>P. conferta</i> Bunge	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445'' N, 102°28'14.9261'' E, 722 m	17.VII.2019
<i>P. crantzii</i> (Crantz) Beck ex Fritsch	Republic Buryatia, Zaigraeyevo (Zaigraevsky District)	51°51'6.8316'' N, 108°18'36.9388'' E, 639 m	11.VII.2019
<i>P. desertorum</i> Bunge	Republic Buryatia, Kabansk (Kabansky District)	52°2'54.5243'' N, 106°37'34.5456'' E, 461 m	23.VII.2019
<i>P. elegans</i> Cham. & Schtdl.	Republic Buryatia, Tankhoy (Kabansky District)	51°32'59.4879'' N, 105°7'15.1616'' E, 504 m	15.VII.2018
<i>P. evestita</i> Th.Wolf	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>P. flagellaris</i> Willd. ex Schtdl.	Republic Buryatia, Kyakhta (Kyakhtinsky District)	50°22'56.5082'' N, 106°26'58.9522'' E, 853 m	13.VII.2019
<i>P. fragarioides</i> L.	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286'' N, 107°23'54.2239'' E, 506 m	02.VII.2019
<i>P. kryloviana</i> Th.Wolf	Republic Buryatia, Kyakhta (Kyakhtinsky District)	50°22'56.5082'' N, 106°26'58.9522'' E, 853 m	13.VII.2019
<i>P. leucophylla</i> Pall.	Republic Buryatia, Zaigraeyevo (Zaigraevsky District)	51°51'6.8316'' N, 108°18'36.9388'' E, 639 m	11.VII.2019
<i>P. longifolia</i> Willd. ex Schtdl.	Republic Buryatia, Baunt (Bauntovsky District)	55°15'37.2172'' N, 113°8'57.2040'' E, 1096 m	01.VIII.2019
<i>P. multifida</i> L.	Republic Buryatia, Onokhoy (Zaigraevsky District)	51°55'10.1889'' N, 108°3'26.4983'' E, 544 m	03.VII.2019

Table S1. Continuation

Species	Collection place	Coordinates	Collection date
<i>P. mujensis</i> Kurbatski	Republic Buryatia, Severobaykalsk	55°38'56.8229" N, 109°20'28.5324" E, 582 m	02.VIII.2019
<i>P. nivea</i> L.	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468" N, 102°53'40.4121" E, 724 m	23.VII.2018
<i>P. norvegica</i> L.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212" N, 107°54'10.4700" E, 1003 m	18.VII.2019
<i>P. nudicaulis</i> Willd. ex Schtdl.	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445" N, 102°28'14.9261" E, 722 m	17.VII.2019
<i>P. ozjorensis</i> Peschkova	Republic Buryatia, Kabansk (Kabansky District)	52°2'54.5243" N, 106°37'34.5456" E, 461 m	23.VII.2019
<i>P. sanguisorba</i> Willd. ex Schtdl.	Republic Buryatia, Zaigraeyevo (Zaigraevsky District)	51°51'6.8316" N, 108°18'36.9388" E, 639 m	11.VII.2019
<i>P. saposchnikovii</i> Kurbatski	Republic Buryatia, Baunt (Bauntovsky District)	55°15'37.2172" N, 113°8'57.2040" E, 1096 m	01.VIII.2019
<i>P. sericea</i> L.	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286" N, 107°23'54.2239" E, 506 m	02.VII.2019
<i>P. stipularis</i> L.	Republic Buryatia, Onokhoy (Zaigraevsky District)	51°55'10.1889" N, 108°3'26.4983" E, 544 m	03.VII.2019
<i>P. tanacetifolia</i> Willd. ex Schtdl.	Republic Buryatia, Kabansk (Kabansky District)	52°2'54.5243" N, 106°37'34.5456" E, 461 m	23.VII.2019
<i>P. tergemina</i> Soják	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286" N, 107°23'54.2239" E, 506 m	02.VII.2019
<i>P. verticillaris</i> Stephan ex Willd.	Republic Buryatia, Kyakhta (Kyakhtinsky District)	50°22'56.5082" N, 106°26'58.9522" E, 853 m	13.VII.2019
<i>Prunus pedunculata</i> (Pall.) Maxim.	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445" N, 102°28'14.9261" E, 722 m	17.VII.2019
<i>Rosa acicularis</i> Lindl.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212" N, 107°54'10.4700" E, 1003 m	18.VII.2019
<i>R. davurica</i> Pall.	Republic Buryatia, Zaigraeyevo (Zaigraevsky District)	51°51'6.8316" N, 108°18'36.9388" E, 639 m	11.VII.2019
<i>Rubus arcticus</i> L.	Republic Buryatia, Tankhoy (Kabansky District)	51°32'59.4879" N, 105°7'15.1616" E, 504 m	15.VII.2018

Table S1. Continuation

Species	Collection place	Coordinates	Collection date
<i>Rubus chamaemorus</i> L.	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468'' N, 102°53'40.4121'' E, 724 m	23.VII.2018
<i>R. humulifolius</i> C.A. Mey.	Republic Buryatia, Onokhoy (Zaigraevsky District)	51°55'10.1889'' N, 108°3'26.4983'' E, 544 m	03.VII.2019
<i>R. matsumuranus</i> H. Lev. & Vaniot	Republic Buryatia, Tankhoy (Kabansky District)	51°32'59.4879'' N, 105°7'15.1616'' E, 504 m	15.VII.2018
<i>R. saxatilis</i> L.	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>Sanguisorba alpina</i> Bunge	Republic Buryatia, Severobaykalsk	55°38'56.8229'' N, 109°20'28.5324'' E, 582 m	02.VIII.2019
<i>S. officinalis</i> L.	Republic Buryatia, Kabansk (Kabansky District)	52°2'54.5243'' N, 106°37'34.5456'' E, 461 m	23.VII.2019
<i>Sibbaldia adpressa</i> Bunge	Republic Buryatia, Zun-Murino (Tunkinsky District)	51°44'27.2468'' N, 102°53'40.4121'' E, 724 m	23.VII.2018
<i>S. procumbens</i> L.	Republic Buryatia, Kyakhta (Kyakhtinsky District)	50°22'56.5082'' N, 106°26'58.9522'' E, 853 m	13.VII.2019
<i>Sibbaldianthe bifurca</i> (L.) Kurtto & T.Erikss.	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445'' N, 102°28'14.9261'' E, 722 m	17.VII.2019
<i>S. bifurca subsp. orientalis</i> (Juz.) Kurtto & T.Erikss.	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286'' N, 107°23'54.2239'' E, 506 m	02.VII.2019
<i>Sorbaria pallasii</i> (G. Don fil.) Pojark.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>S. sorbifolia</i> (L.) A. Braun	Republic Buryatia, Severobaykalsk	55°38'56.8229'' N, 109°20'28.5324'' E, 582 m	02.VIII.2019
<i>Sorbus sibirica</i> Hedl.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>Spiraea alpina</i> Pall.	Republic Buryatia, Zhemchug (Tunkinsky District)	51°41'51.0445'' N, 102°28'14.9261'' E, 722 m	17.VII.2019
<i>S. aquilegifolia</i> Pall.	Republic Buryatia, Baunt (Bauntovsky District)	55°15'37.2172'' N, 113°8'57.2040'' E, 1096 m	01.VIII.2019
<i>S. dahurica</i> (Rupr.) Maxim.	Republic Buryatia, Podlopatki (Mukhorshibirsky District)	50°54'50.8598'' N, 107°6'9.5972'' E, 647 m	29.V.2018
<i>S. flexuosa</i> Fisch. ex Cambess.	Republic Buryatia, Kolobki (Ivolginsky District)	51°38'53.0286'' N, 107°23'54.2239'' E, 506 m	02.VII.2019

Table S1. Continuation

Species	Collection place	Coordinates	Collection date
<i>S. media</i> Schmidt	Republic Buryatia, Mukhorshibir (Mukhorshibirsky district)	51°1'54.8212'' N, 107°54'10.4700'' E, 1003 m	18.VII.2019
<i>S. salicifolia</i> L.	Republic Buryatia, Kabansk (Kabansky District)	52°2'54.5243'' N, 106°37'34.5456'' E, 461 m	23.VII.2019

Table S2. Mass spectrometric parameters of compounds 1–60.

No	ESI-MS, [M–H] <sup>−</sup> , m/z	ESI-MS, MS/MS, m/z	Parent ion, m/z	Daughter ion, m/z	Declustering potential, V	Collision energy, V	Compound
1	341	179	341	179	-35	-5	Hexosyl- <i>O</i> -hexose
2	331	169	331	169	-47	-15	1- <i>O</i> -Galloyl-glucose
3	331	169	331	169	-50	-15	<i>O</i> -Galloyl-glucose
4	331	169	331	169	-40	-15	<i>O</i> -Galloyl-glucose
5	331	169	331	169	-45	-15	<i>O</i> -Galloyl-glucose
6	183	139	183	139	-65	-20	2-Pyrone-4,6-dicarboxylic acid
7	783	633, 481, 301	783	301	-72	-15	Pedunculagin
8	353	191, 179, 173, 135	353	191	-30	-10	4- <i>O</i> -Caffeoylquinic acid
9	783	621, 471, 301	783	621	-55	-15	Casuarinin
10	577	305, 289	577	289	-85	-30	Procyanidin B1
11	785	623, 473, 301	785	623	-75	-20	Tellimagrandin I <sub>1</sub>
12	577	305, 289	577	289	-80	-35	Procyanidin B3
13	289	125	289	125	-94	-25	(+)-Catechin
14	353	191, 165	353	191	-30	-10	5- <i>O</i> -Caffeoylquinic acid
15	305	155, 125	305	125	-55	-20	(-)-Epigallocatechin
16	577	289	577	289	-80	-30	Procyanidin B2
17	447	315, 301	447	315	-105	-35	Ellagic acid- <i>O</i> -methyl ester- <i>O</i> -pentoside
18	937	775, 625, 475	937	775	-85	-20	Tri- <i>O</i> -galloyl- <i>O</i> -hexahydroxy diphenoyl-glucose
19	785	623, 473, 301	785	623	-75	-20	Tellimagrandin I <sub>2</sub>
20	577	305, 289	577	289	-85	-20	Procyanidin dimer
21	783	621, 391	783	621	-87	-25	Bis- <i>O</i> -hexahydroxydiphenoyl-glucose
22	785	623, 321, 301	785	623	-85	-20	Di- <i>O</i> -galloyl- <i>O</i> -hexahydroxy diphenoyl-glucose
23	289	125	289	125	-94	-20	(-)-Epicatechin
24	337	301, 275, 249	337	301	-102	-30	Hexahydroxydiphenic acid
25	785	623, 321, 301	785	623	-82	-15	Di- <i>O</i> -galloyl- <i>O</i> -hexahydroxy diphenoyl-glucose
26	515	353, 191, 179	515	191	-35	-10	1,3-Di- <i>O</i> -caffeoylquinic acid
27	783	621, 391	783	621	-75	-25	Bis- <i>O</i> -hexahydroxydiphenoyl-glucose
28	463	301	463	301	-72	-30	6-Hydroxyluteolin-7- <i>O</i> -Glc
29	783	621, 391	783	621	-79	-25	Bis- <i>O</i> -hexahydroxydiphenoyl-glucose
30	577	289	577	289	-80	-30	Procyanidin dimer
31	937	785, 623, 473, 301	937	785	-87	-20	Tellimagrandin II <sub>1</sub>
32	935	633, 463, 301	935	633	-80	-20	Potentillin
33	1103	801, 783, 499, 481, 319, 301	1103	801	-75	-25	Agrimonic acid A
34	1871	1263, 1083, 933, 781, 301	1871	933	-95	-20	Gemin A
35	1103	801, 783, 499, 481, 319, 301	1103	801	-80	-25	Agrimonic acid B
36	1869	1567, 1265, 1085, 935, 783, 633, 481, 301	1869	935	-85	-25	Agrimoniin
37	441	291	441	291	-64	-20	(-)-Epicatechin gallate
38	301	285	301	285	-120	-40	Ellagic acid
39	609	463, 301	609	301	-106	-30	Quercetin-3- <i>O</i> -(6''- <i>O</i> -rhamnosyl)-glucoside
40	937	785, 623, 473, 301	937	785	-85	-25	Tellimagrandin II <sub>2</sub>
41	463	301	463	301	-100	-30	Quercetin-3- <i>O</i> -glucoside
42	477	301	477	301	-105	-30	Quercetin-3- <i>O</i> -glucuronide
43	447	285	447	285	-110	-35	Luteolin-7- <i>O</i> -glucoside
44	461	285	461	285	-110	-35	Luteolin-7- <i>O</i> -glucuronide
45	549	301	549	301	-95	-30	Quercetin-3- <i>O</i> -(6'- <i>O</i> -malonyl)-glucoside
46	515	353, 191, 179	515	191	-40	-15	3,5-Di- <i>O</i> -caffeoylquinic acid
47	593	447, 285	593	285			Kaempferol-3- <i>O</i> -(6'- <i>O</i> -rhamnosyl)-glucoside
48	447	301	447	301	-105	-30	Quercetin-3- <i>O</i> -rhamnoside
49	447	285	447	285	-110	-35	Kaempferol-3- <i>O</i> -glucoside
50	431	269	431	269	-105	-30	Apigenin-7- <i>O</i> -glucoside
51	445	269	445	269	-110	-35	Apigenin-7- <i>O</i> -glucuronide
52	533	285	533	285	-106	-30	Kaempferol- <i>O</i> -malonyl- <i>O</i> -hexoside



Table S2. Continuation

No	ESI-MS, [M-H] <sup>-</sup> , m/z	ESI-MS, MS/MS, m/z	Parent ion, m/z	Daughter ion, m/z	Declustering potential, V	Collision energy, V	Compound
53	533	285	533	285	-115	-30	Luteolin-3-O-(6''-O-malonyl)- glucoside
54	431	285	431	285	-115	-35	Kaempferol-3-O-rhamnoside
55	609	301	609	301	-104	-30	Quercetin-3-O-(6''-O-p- coumaroyl)-glucoside
56	593	285	593	285	-110	-30	Kaempferol-3-O-(6''-O-p- coumaroyl)-glucoside
57	329	315, 301	329	315	-130	-40	Ellagic acid di-O-methyl ester
58	593	285	593	285	-115	-35	Luteolin-7-O-(6''-O-p-coumaroyl)- glucoside
59	517	269	517	269	-120	-35	Apigenin-7-O-(6''-O-p-malonyl)- glucoside
60	577	269	577	269	-120	-35	Apigenin-7-O-(6''-O-p- coumaroyl)-glucoside