

Alcesefoliside

Chemical Properties

CAS No.:	124151-38-8
Formula:	C33H40O20
Molecular Weight:	756.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Alcesefoliside has statistically significant cytoprotective activity similar to that of silymarin, tested at 60 ug/mL.
Targets(IC ₅₀)	others: None
In vitro	A new flavonol tetraglycoside, quercetin-3-O-[α±-L-rhamnopyranosyl-(12)-[α±-L-rhamnopyranosyl-(16)]-β-D-galactopyranosyl]-7-O-β-D-glucopyranoside (1), and two new flavonol alkaloids, N-(8-methylquercetin-3-O-[α±-L-rhamnopyranosyl-(12)-[α±-L-rhamnopyranosyl-(16)]-β-D-galactopyranosyl])-3-hydroxypiperidin-2-one (2) and N-(8-methylkaempferol-3-O-[α±-L-rhamnopyranosyl-(12)-[α±-L-rhamnopyranosyl-(16)]-β-D-galactopyranosyl])-3-hydroxypiperidin-2-one (3), were isolated from the aerial parts of <i>Astragalus monspessulanus</i> ssp. <i>monspessulanus</i> . Two rare flavonoids with an unusual 3-hydroxy-3-methylglutaric acid moiety, quercetin-3-O-α±-L-rhamnopyranosyl-(12)-[6-O-(3-hydroxy-3-methylglutaryl)]-β-D-galactopyranoside (4) and kaempferol-3-O-α±-L-rhamnopyranosyl-(12)-[6-O-(3-hydroxy-3-methylglutaryl)]-β-D-galactopyranoside (5), were isolated from the aerial parts of <i>A. monspessulanus</i> ssp. <i>illyricus</i> . In addition, the eight known flavonoids alangiflavoside (6), Alcesefoliside (7), mauritianin (8), quercetin-3-β-robinobioside (9), cosmosine (10), apigenin-4'-O-glucoside (11), trifolin (12), and rutin (13) were isolated from aerial parts of <i>A. monspessulanus</i> ssp. <i>monspessulanus</i> . Their structures were elucidated via NMR and HRESIMS data.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.322 mL	6.608 mL	13.215 mL
5 mM	0.264 mL	1.322 mL	2.643 mL
10 mM	0.132 mL	0.661 mL	1.322 mL
50 mM	0.026 mL	0.132 mL	0.264 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Flavoalkaloids and Flavonoids from Astragalus monspessulanus. J Nat Prod. 2015 Nov 25;78(11):2565-71.

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