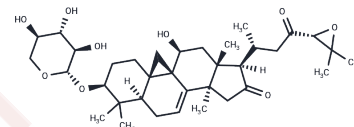


Cimicifugoside H-1

Chemical Properties

CAS No. : 163046-73-9
 Formula: C₃₅H₅₂O₉
 Molecular Weight: 616.78
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cimicifugoside H1 shows the protective function to cerebral neuron during cerebral ischemia.
Targets(IC50)	Others
In vitro	The compounds were isolated and purified by normal and reversed phase column chromatographic methods. Structures were identified by spectroscopic analyses. Their osteoclast inhibition activity was then studied. Thirteen cycloartane triterpenoids were isolated from the rhizomes of <i>C. foetida</i> and were characterized as 25-O-acetyl-cimigenol (1), cimigenol (2), cimicidanol (3), 26-deoxyactein (4), asiaticoside A (5), 23-epi-26-deoxyactein (6), actein (7), 12beta-hydroxycimigenol (8), cimicide E (9), (23R, 24S) 25-O-acetyl-cimigenol-3-O-beta-D-xylopyranoside (10), (23R, 24S) cimigenol-3-O-beta-D-xylopyranoside (11), Cimicifugoside H1 (12) and Cimicifugoside H2 (13).

Solubility Information

Solubility	DMSO: 6.17 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.62 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6213 mL	8.1066 mL	16.2132 mL
5 mM	0.3243 mL	1.6213 mL	3.2426 mL
10 mM	0.1621 mL	0.8107 mL	1.6213 mL
50 mM	0.0324 mL	0.1621 mL	0.3243 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cycloartane triterpenoid of *Cimicifuga foetida*. *Zhongguo Zhong Yao Za Zhi*. 2009 Aug;34(15):1930-4.

Hu H F, Han L, Fu J Y, et al. LINC00982-encoded protein PRDM16-DT regulates CHEK2 splicing to suppress colorectal cancer metastasis and chemoresistance. *Theranostics*. 2024, 14(8): 3317.

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