

Prim-O-glucosylcimifugin

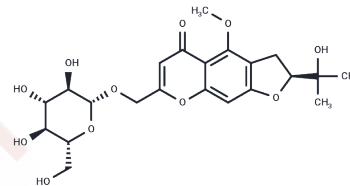
Chemical Properties

CAS No. : 80681-45-4

Formula: C₂₂H₂₈O₁₁

Molecular Weight: 468.45

Storage: Store at low temperature, Keep away from direct sunlight
 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	Prim-O-glucosylcimifugin (Cimifugin 7-glucoside) can inhibit the proliferation of SMC (smooth muscle cell) stimulated by TNF-alpha, increase the proportion of G0/G1 phase.
Targets(IC50)	NO Synthase, COX, JAK, TNF

Solubility Information

Solubility	DMSO: 125 mg/mL (266.84 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: 2 mg/mL (4.27 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (21.35 mM), Solution. <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	2.1347 mL	10.6735 mL	21.347 mL
5 mM	0.4269 mL	2.1347 mL	4.2694 mL
10 mM	0.2135 mL	1.0673 mL	2.1347 mL
50 mM	0.0427 mL	0.2135 mL	0.4269 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

Zhao XL, et al. [Studies on effects of calycosin-7-O- β -D-glucoside on prim-O-glucosylcimifugin and cimifugin in vivo pharmacokinetics]. Zhongguo Zhong Yao Za Zhi.

Song J, et al. Pharmacokinetic Interaction of astragaloside IV with atractylenolide I and prim-O-glucosylcimifugin in male Sprague Dawley rats. Planta Med. 2014 Feb;80(2-3):187-92.

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