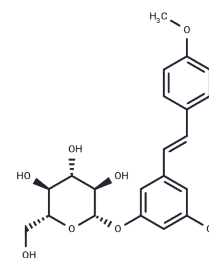


Desoxyrhaponticin

Chemical Properties

CAS No. :	30197-14-9
Formula:	C ₂₁ H ₂₄ O ₈
Molecular Weight:	404.41
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	1. Desoxyrhaponticin (Deoxyrhaponticin) is an agent that is potentially effective in controlling postprandial hyperglycemia in diabetes, the in vivo antidiabetic action of this compound can be explained, in part at least, by inhibition of glucose transport in the small intestine and inhibition of glucose reabsorption in the kidney. 2. Desoxyrhaponticin and rhaponticin could be considered as promising fatty acid synthase(FAS) inhibitors, they could inhibit intracellular FAS activity and downregulate FAS expression in human breast cancer MCF-7 cells.
Targets(IC50)	Apoptosis, Fatty Acid Synthase

Solubility Information

Solubility	DMSO: 160 mg/mL (395.64 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 (4.95 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	2.4727 mL	12.3637 mL	24.7274 mL
5 mM	0.4945 mL	2.4727 mL	4.9455 mL
10 mM	0.2473 mL	1.2364 mL	2.4727 mL
50 mM	0.0495 mL	0.2473 mL	0.4945 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

Li P , Tian W , Wang X , et al. Inhibitory effect of desoxyrhaponticin and rhaponticin, two natural stilbene glycosides from the Tibetan medicinal plant *Rheum tanguticum* Maxim. ex Balf, on fatty acid synthase and human breast cancer cells[J]. *Food & Function*, 2014, 5(2):251-256.

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