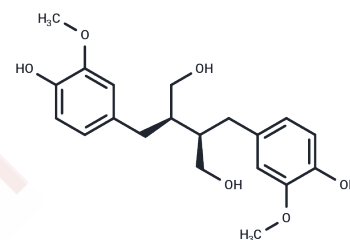


Secoisolariciresinol

Chemical Properties

CAS No. :	29388-59-8
Formula:	C ₂₀ H ₂₆ O ₆
Molecular Weight:	362.42
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	Secoisolariciresinol is an enterolignan precursor, it has antioxidant, and estrogen-like activities, it can significantly suppress triglyceride (TG) accumulation in 3T3-L1 adipocytes.
Targets(IC50)	TNF
In vitro	The effects of SECOs on the regulation of 3T3-L1 adipocytes, and identified the structure-activity relationships. Optically active SECO and meso-SECO were tested for their effects on lipid metabolism in 3T3-L1 adipocytes. (-)-SECO accelerated adiponectin production of 3T3-L1 adipocytes. On the other hand, (+)- and meso-SECO suppressed the production of adiponectin. In addition, triglyceride (TG) accumulation in 3T3-L1 adipocytes was significantly suppressed by all three SECOs tested here, as was 17beta-estradiol, when the SECOs were added to the medium during induction of 3T3-L1 preadipocytes to adipocytes. Especially, (-)-SECO strongly reduced TG accumulation[1]

Solubility Information

Solubility	DMSO: 150 mg/mL (413.88 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 (5.52 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	2.7592 mL	13.7961 mL	27.5923 mL
5 mM	0.5518 mL	2.7592 mL	5.5185 mL
10 mM	0.2759 mL	1.3796 mL	2.7592 mL
50 mM	0.0552 mL	0.2759 mL	0.5518 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

The Effect of Secoisolariciresinol on 3T3-L1 Adipocytes and the Relationship between Molecular Structure and Activity. *Biosci Biotechnol Biochem.* 2009 Jan;73(1):35-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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