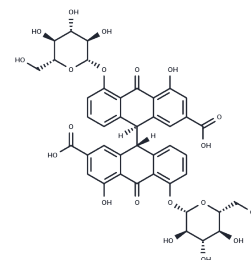


Sennoside B

Chemical Properties

CAS No. :	128-57-4
Formula:	C42H38O20
Molecular Weight:	862.74
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sennoside B is an anthranoid. Anthranoid derivatives are used all over the world as a treatment for constipation.
Targets(IC50)	PDGFR
In vitro	Sennoside B, a kind of irritant laxative isolated from rhei rhizome, inhibits platelet-derived growth factor (PDGF)-stimulated MG63 cell proliferation by binding to PDGF-BB and its receptor and down-regulating the PDGFR-beta signaling pathway. Pre-incubation of PDGF-BB with sennoside B inhibits the phosphorylation of pathway components including Ak strain transforming protein (AKT), signal transducer and activator of transcription 5 (STAT-5) and extracellular signal-regulated kinase 1/2 (ERK1/2). [2] It also inhibits bovine serum monoamine oxidase with IC50 of 9 μM. [1]
In vivo	LD50: Mice 5000 mg/kg (i.g.); Rats 5000 mg/kg (i.g.). [3]

Solubility Information

Solubility	H2O: Insoluble, DMSO: 125 mg/mL (144.89 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: 3.3 mg/mL (3.83 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	1.1591 mL	5.7955 mL	11.591 mL
5 mM	0.2318 mL	1.1591 mL	2.3182 mL
10 mM	0.1159 mL	0.5795 mL	1.1591 mL
50 mM	0.0232 mL	0.1159 mL	0.2318 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

Hiraoka A, et al. Chem Pharm Bull, 1989, 37(10), 2744-2746.

Chen YC, et al. Life Sci. 2009, 84(25-26), 915-922.

Mengs U, et al. Pharmacology, 1988, 36(Suppl. 1), 180-187.

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