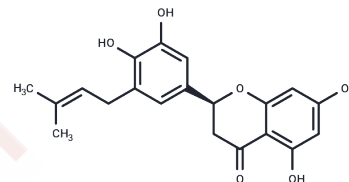


Sigmoidin B

Chemical Properties

CAS No. :	87746-47-2
Formula:	C ₂₀ H ₂₀ O ₆
Molecular Weight:	356.369
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	Sigmoidin B is a prenylated flavanone and a selective inhibitor of 5-lipoxygenase (5-lipoxygenase). It effectively scavenges DPPH free radicals and exhibits antigenotoxic activity by inhibiting aflatoxin B1-induced genotoxicity, with an IC ₅₀ of 18.7 µg/mL. Additionally, Sigmoidin B possesses anti-inflammatory and antioxidant properties.
Targets(IC ₅₀)	Lipoxygenase
In vivo	In a phospholipase A2-induced mouse paw edema test, Sigmoidin B (5 mg/kg; intraperitoneal injection) inhibited edema formation at 60 minutes. In the Phorbol 12-myristate 13-acetate (PMA) test, Sigmoidin B reduced induced edema by 83% [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8061 mL	14.0304 mL	28.0607 mL
5 mM	0.5612 mL	2.8061 mL	5.6121 mL
10 mM	0.2806 mL	1.403 mL	2.8061 mL
50 mM	0.0561 mL	0.2806 mL	0.5612 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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