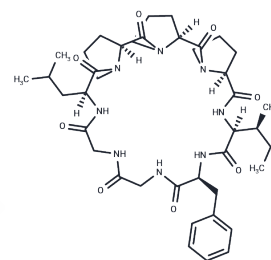


Heterophyllin B

Chemical Properties

CAS No. :	145459-19-4
Formula:	C40H58N8O8
Molecular Weight:	778.94
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Heterophyllin B effectively suppresses the adhesion and invasion of the human esophageal carcinoma cells by mediating the PI3K/AKT/ β -catenin pathways and regulating the expression levels of adhesion- and invasion-associated genes.
Targets(IC50)	PI3K

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 45 mg/mL (57.77 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 (2.57 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	1.2838 mL	6.419 mL	12.838 mL
5 mM	0.2568 mL	1.2838 mL	2.5676 mL
10 mM	0.1284 mL	0.6419 mL	1.2838 mL
50 mM	0.0257 mL	0.1284 mL	0.2568 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

Tantai, Zhang, Zhao. Heterophyllin B inhibits the adhesion and invasion of ECA109 human esophageal carcinoma cells by targeting PI3K/AKT/ β catenin signaling[J]. Molecular Medicine Reports, 2015, 13(2).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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