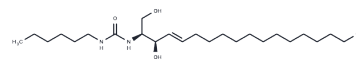


C6 Urea Ceramide

Chemical Properties

CAS No. :	486991-52-0
Formula:	C ₂₅ H ₅₀ N ₂ O ₃
Molecular Weight:	426.68
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	C6 urea ceramide is an inhibitor of neutral ceramidase. ¹ It increases total ceramide levels in wild-type mouse embryonic fibroblasts (MEFs) and in HT-29 colon cancer cells but not in MEFs lacking neutral ceramidase. It inhibits proliferation of, and induces apoptosis and autophagy in HT-29, but not non-cancerous RIE-1, cells when used at concentrations of 5 and 10 μ M. C6 urea ceramide decreases total β -catenin, increases phosphorylated β -catenin, and induces colocalization of β -catenin with the 20S proteasome in HT-29 and HCT116, but not RIE-1, cells. It reduces tumor growth and increases C16, C18, C20, and C24 ceramide levels in tumor tissue in an HT-29 mouse xenograft model when administered at doses of 1.25, 2.5, and 5 mg/kg for five days.
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Solubility Information

Solubility	DMF: 0.5 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3437 mL	11.7184 mL	23.4368 mL
5 mM	0.4687 mL	2.3437 mL	4.6874 mL
10 mM	0.2344 mL	1.1718 mL	2.3437 mL
50 mM	0.0469 mL	0.2344 mL	0.4687 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.

Reference

García-Barros, M., Coant, N., Kawamori, T., et al. Role of neutral ceramidase in colon cancer. *FASEB J.* 30(12), 4159-4171 (2016).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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