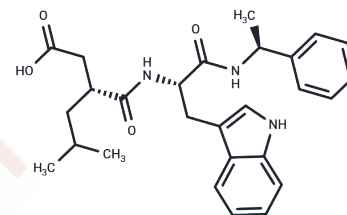


GM 1489

Chemical Properties

CAS No. : 171347-75-4
 Formula: C₂₇H₃₃N₃O₄
 Molecular Weight: 463.57
 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	GM 1489 is a broad-spectrum inhibitor of matrix metalloproteinases (MMPs) with Ki values of 0.002, 0.1, 0.5, 0.2, and 20 μM for MMP-1, MMP-8, MMP-2, MMP-9, and MMP-3, respectively. It reduces 5-aza-2'-deoxycytidine-induced increases in MMP-1, MMP-2, MMP-3, MMP-7, MMP-9, and MMP-14 expression as well as cell invasion in AsPC-1, BxPC-3, Hs766T, MiaPaCa2, and PANC-1 cancer cells. Topical administration of GM 1489 (100 μg) inhibits increases in ear thickness and epidermal hyperplasia induced by phorbol 12-myristate 13-acetate and phorbol dibutyrate (PdBu) in mice.
Targets(IC50)	MMP,Others

Solubility Information

Solubility	Ethanol: 20 mg/mL (43.14 mM),Sonication is recommended. DMF: 50 mg/mL (107.86 mM),Sonication is recommended. DMSO: 50 mg/mL (107.86 mM),Sonication is recommended. PBS (pH 7.2): 0.2 mg/mL (0.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1572 mL	10.7859 mL	21.5717 mL
5 mM	0.4314 mL	2.1572 mL	4.3143 mL
10 mM	0.2157 mL	1.0786 mL	2.1572 mL
50 mM	0.0431 mL	0.2157 mL	0.4314 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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