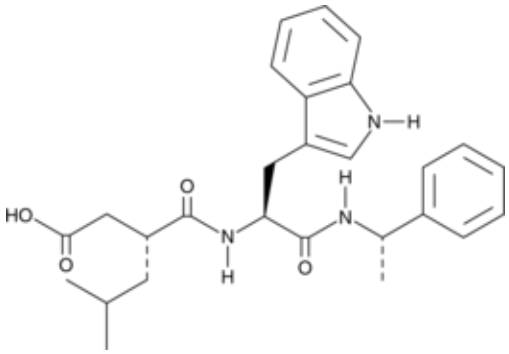
Product Data Sheet

Product Name: GM 1489
Cat. No.: GC43780

Chemical Properties

Cas. No.	171347-75-4		
SMILES	O=C([C@H](CC1=CNC2=C1C=CC=C2)NC([C@H](CC(C)C)CC(O)=O)=O)N[C@H](C3=CC=CC=C3)C		
Formula	C27H33N3O4	M.Wt	463.6
Solubility	DMF: 50 mg/ml,DMSO: 50 mg/ml,Ethanol: 20 mg/ml,PBS (pH 7.2): 0.2 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

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 (PdiBu) in mice.

Caution: Product has not been fully validated for medical applications. For research use only.
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