Product Data Sheet

Product Name: Bassianolide
Cat. No.: GC18658

Chemical Properties

Cas. No.	64763-82-2		
Chemical Name	Cyclo[(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-leucyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-leucyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-leucyl-(2R)-2-hydroxy-3-methylbutanoyl-N-methyl-L-leucyl]		
SMILES	O=C([C@H](CC(C)C)N1C)O[C@H](C(C)C)C(N(C)[C@@H](CC(C)C)C(O[C@@H](C(C)C)C(N(C)[C@@H](CC(C)C)C(O[C@H](C(C)C)C(N(C)[C@@H](CC(C)C)C(O[C@H](C(C)C)C1=O)=O)=O)=O)=O)=O)=O		
Formula	$C_{48}H_{84}N_4O_{12}$	M.Wt	909.2
Solubility	DMF: Soluble,DMSO: Soluble,Ethanol: Soluble,Methanol: Soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Bassianolide		

Background

Bassianolide is a cyclodepsipeptide insecticide synthesized by the fungal species B. bassiana and V. lecanii. In vivo, the oral administration of bassianolide induces atony in the silkworm B. mori at a concentration of 4 ppm and is lethal at doses exceeding 8 ppm. Atony is similarly induced in silkworm larvae at oral doses as low as 2 ug/larva. In isolated guinea pig smooth muscle tissue, bassianolide (0.01-1 uM) specifically inhibits the muscarinic, but not nicotinic, receptor-induced contractions in response to acetylcholine.

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