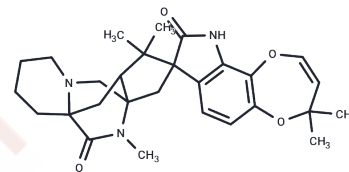


Marcfortine A

Chemical Properties

CAS No. :	75731-43-0
Formula:	C ₂₈ H ₃₅ N ₃ O ₄
Molecular Weight:	477.605
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	Marcfortine A, an indole alkaloid originally isolated from <i>P. roqueforti</i> , exhibits nematocidal activity against the parasitic nematode <i>H. contortus</i> (LD ₉₉ = 0.06 µg/ml) and inhibits motility of adult worms (EC ₅₀ = 2 µM). It effectively eliminates <i>H. contortus</i> , <i>T. colubriformis</i> , and <i>O. ostertagi</i> from experimentally infected jirds (ED _{95s} = 0.33, 0.11, and 2.5 mg/animal, respectively). Marcfortine A also dose-dependently inhibits nicotine-induced calcium mobilization in SH-SY5Y and TE-671 cells expressing α3 subunit-containing human nicotinic acetylcholine receptors (nAChRs) and muscle-type nAChRs, respectively.
Targets(IC50)	Others,Parasite

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.0938 mL	10.4688 mL	20.9376 mL
5 mM	0.4188 mL	2.0938 mL	4.1875 mL
10 mM	0.2094 mL	1.0469 mL	2.0938 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 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

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