Data Sheet (Cat.No.T10311)

TargetMol

Amphotericin X1

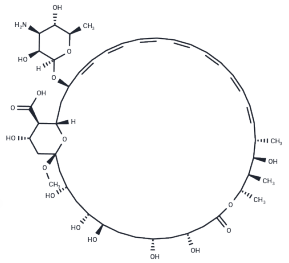
Chemical Properties

CAS No. : 136135-57-4

Formula: C48H75NO17

Molecular Weight: 938.118

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	Amphotericin X1 is a derivative of Amphotericin B with good antifungal activity. Amphotericin X1 inhibits Candida albicans 33/079, Cryptococcus neoformans 451, C. parapsilosis 937A, Aspergillus niger 57A and A.fumigatus (MICs: 1 μg/mL, 1 μg/mL, 8 μg/mL, 2 μg/mL and 2 μg/mL).
Targets(IC50)	Others,Antifungal
In vitro	Amphotericin X1 (compound 4) exhibits antifungal activity with significantly reduced hemolytic activity (EH50: 42 μg/mL) against mammalian erythrocytes in vitro.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.066 mL	5.3298 mL	10.6596 mL
5 mM	0.2132 mL	1.066 mL	2.1319 mL
10 mM	0.1066 mL	0.533 mL	1.066 mL
50 mM	0.0213 mL	0.1066 mL	0.2132 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.

Reference

Taylor AW, et al. Synthesis and antifungal selectivity of new derivatives of amphotericin B modified at the C-13 position. J Antibiot (Tokyo). 1993 Mar;46(3):486-93.

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