

## D-erythro-MAPP

## Chemical Properties

CAS No. : 143492-38-0

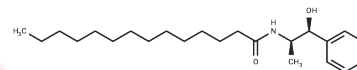
Formula: C<sub>23</sub>H<sub>39</sub>NO<sub>2</sub>

Molecular Weight: 361.56

Store at low temperature

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	D-erythro-MAPP (D-e-MAPP) is a ceramidase inhibitor, a ceramide analog with potential anticancer activity.
Targets(IC50)	Others
In vitro	In human breast cancer MCF-7 cells, D-erythro-MAPP (24 hours; 3.13-100 μM) can inhibit cell viability[1].

## Solubility Information

Solubility	DMSO: 1 mg/mL (2.77 mM),Sonication is recommended. Ethanol: 16 mg/mL (44.25 mM),Sonication is recommended. DMF: 16 mg/mL (44.25 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:2): 0.5 mg/mL (1.38 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	2.7658 mL	13.829 mL	27.6579 mL
5 mM	0.5532 mL	2.7658 mL	5.5316 mL
10 mM	0.2766 mL	1.3829 mL	2.7658 mL
50 mM	0.0553 mL	0.2766 mL	0.5532 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

Hüseyin İzgördü, et al. Characteristics of apoptosis induction in human breast cancer cells treated with a ceramidase inhibitor. Cytotechnology. 2020 Dec;72(6):907-919.

A Bielawska, et al. (1S,2R)-D-erythro-2-(N-myristoylamino)-1-phenyl-1-propanol as an inhibitor of ceramidase. J Biol Chem. 1996 May 24;271(21):12646-54.

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