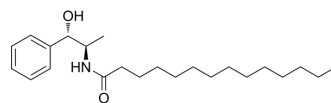


## D-erythro-MAPP

Cat. No.:	HY-137422	
CAS No.:	143492-38-0	
Molecular Formula:	C <sub>23</sub> H <sub>39</sub> NO <sub>2</sub>	
Molecular Weight:	361.56	
Target:	Ceramidase	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMF : ≥ 20 mg/mL (55.32 mM)  
 Ethanol : ≥ 20 mg/mL (55.32 mM)  
 DMSO : ≥ 1 mg/mL (2.77 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.7658 mL	13.8290 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

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

D-erythro-MAPP (D-e-MAPP) is a ceramidase inhibitor, with an IC<sub>50</sub> of 1-5 μM in vitro<sup>[1]</sup>.

#### In Vitro

D-erythro-MAPP (D-e-MAPP) reduces the viability of MCF-7 cells in a dose-dependent manner with IC<sub>50</sub> value of 4.4 μM, and 15.6 μM, respectively<sup>[1]</sup>.  
 D-erythro-MAPP (D-e-MAPP) induces G0/G1 arrest in cell cycle progression resulting in growth suppression<sup>[2]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Cell Viability Assay<sup>[1]</sup>

Cell Line: Human breast cancer MCF-7 cells.

Concentration: 24 h.

Incubation Time: 3.13-100 μM.

Result:

Inhibited cell viability.

## CUSTOMER VALIDATION

- J Adv Res. 2023 Oct 19:S2090-1232(23)00314-4.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

- [1]. 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.
- [2]. 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.

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

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