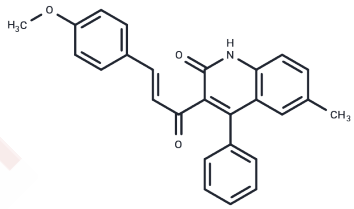
Data Sheet (Cat.No.T10762)

TargetMol

Ceranib1

Chemical Properties



CAS No. : 328076-61-5

Formula: C26H21NO3

Molecular Weight: 395.45

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	Ceranib1 is an inhibitor of ceramidase. It inhibits the proliferation of ovarian cancer cells. Ceranib1 inhibits ceramidase activity toward an exogenous ceramide analog, induces the accumulation of multiple ceramide species, decreases levels of S1P and sphingosine.
Targets(IC50)	Others
In vitro	Ceranib1 produces a dose-dependent decrease in ceramidase activity, with 50% inhibition at 55 and 28 μM in SKOV3 cells. It prevents the hydrolysis of endogenous ceramide species, reducing intracellular sphingosine and S1P. Ceranib1 (10 nM-10 μM; 72 hours) exhibits antiproliferative activity for SKOV3 cells and does not cause significant acute cytotoxicity at concentrations up to those used in the ceramidase assay in SKOV3 cells[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (75.86 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.06 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5288 mL	12.6438 mL	25.2876 mL
5 mM	0.5058 mL	2.5288 mL	5.0575 mL
10 mM	0.2529 mL	1.2644 mL	2.5288 mL
50 mM	0.0506 mL	0.2529 mL	0.5058 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

Draper JM, et al. Discovery and evaluation of inhibitors of human ceramidase. Mol Cancer Ther. 2011 Nov;10(11): 2052-61.