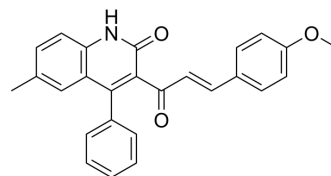


Ceranib1

Cat. No.:	HY-103359
CAS No.:	328076-61-5
Molecular Formula:	C ₂₆ H ₂₁ NO ₃
Molecular Weight:	395.45
Target:	Ceramidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ceranib1 is a ceramidase inhibitor. Ceranib1 inhibits ceramidase activity toward an exogenous ceramide analog, induces the accumulation of multiple ceramide species, decreases levels of sphingosine and S1P. Ceranib1 inhibits the proliferation of ovarian cancer cells ^[1] .								
IC₅₀ & Target	ceramidase ^[1]								
In Vitro	<p>Ceranib1 produces a dose-dependent decrease in ceramidase activity, with 50% inhibition at 55 and 28 μM in SKOV3 cells^[1]. Ceranib1 (24 hours) does not cause significant acute cytotoxicity at concentrations up to at least those used in the ceramidase assay in SKOV3 cells^[1].</p> <p>Ceranib1 prevents the hydrolysis of endogenous ceramide species and reduces intracellular sphingosine and S1P^[1]. Ceranib1 (10 nM-10 μM; 72 hours) exhibits antiproliferative activity for SKOV3 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SKOV3 cells</td> </tr> <tr> <td>Concentration:</td> <td>10 nM-10 μM (varying concentrations)</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell proliferation with IC₅₀ values of 3.9 ± 0.3 μM.</td> </tr> </table>	Cell Line:	SKOV3 cells	Concentration:	10 nM-10 μM (varying concentrations)	Incubation Time:	72 hours	Result:	Inhibited cell proliferation with IC ₅₀ values of 3.9 ± 0.3 μM.
Cell Line:	SKOV3 cells								
Concentration:	10 nM-10 μM (varying concentrations)								
Incubation Time:	72 hours								
Result:	Inhibited cell proliferation with IC ₅₀ values of 3.9 ± 0.3 μM.								

REFERENCES

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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA