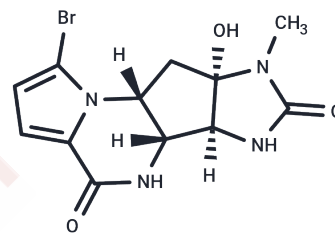


(-)-Agelastatin A

Chemical Properties

CAS No. :	152406-28-5
Formula:	C ₁₂ H ₁₃ BrN ₄ O ₃
Molecular Weight:	341.16
Storage:	Store at low temperature, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	(-)-Agelastatin A is a member of the pyrrole-aminoimidazole marine alkaloid (PAI) family, capable of inhibiting β -catenin, GSK-3 β , and osteopontin (OPN), exhibiting antiproliferative activity against various cancers such as leukaemia and breast cancer, and possessing a certain ability to penetrate the central nervous system (CNS).
Targets(IC50)	Apoptosis, GSK-3, Wnt/beta-catenin
In vitro	<p>Methods: Agelastatin A (0-2 μM, 48 h) was used to treat U-937, HeLa, A549, BT549 and IMR90 cells, and the IC50 values at 48 hours were determined by MTS.</p> <p>Results: The IC50 values of U-937, HeLa, A549, BT549 and IMR90 cells were 67 nM, 708 nM, 1.05 μM, 278 nM and 1.11 μM, respectively.</p> <p>Methods: CEM, Jurkat, Daudi, HL-60 and CA46 cells were treated with Agelastatin A (0-1 μM, 48 h). The IC50 values at 48 h were determined by MTS assay.</p> <p>Results: The IC50 values of CEM, Jurkat, Daudi, HL-60 and CA46 cells were 20, 74, 20, 138 and 187 nM, respectively. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9312 mL	14.6559 mL	29.3118 mL
5 mM	0.5862 mL	2.9312 mL	5.8624 mL
10 mM	0.2931 mL	1.4656 mL	2.9312 mL
50 mM	0.0586 mL	0.2931 mL	0.5862 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

- McClary B, et al. Inhibition of Eukaryotic Translation by the Antitumor Natural Product Agelastatin A. *Cell Chem Biol.* 2017 Apr 27. pii: S2451-9456(17)30106-X.
- Lindel T. Chemistry and Biology of the Pyrrole-Imidazole Alkaloids. *Alkaloids Chem Biol.* 2017;77:117-219. doi: 10.1016/bs.alkal.2016.12.001. Epub 2017 Jan 20.
- Yoshimitsu T, et al. Compounds, compositions, and methods of agelastatin alkaloids: patent evaluation of WO2015042239 (A1). *Expert Opin Ther Pat.* 2017 Feb;27(2):113-119.
- Jouanneau M, et al. Derivatization of agelastatin A leading to bioactive analogs and a trifunctional probe. *Bioorg Med Chem Lett.* 2016 Apr 15;26(8):2092-7.

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