

Epanorin

Chemical Properties

CAS No. :	18463-10-0
Formula:	C ₂₅ H ₂₅ N ₆ O ₆
Molecular Weight:	435.48
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	Epanorin is a secondary metabolite of the Acarospora lichenic species. It can inhibit cancer cell proliferation, reduce reactive oxygen species (ROS) production, and induce G ₀ /G ₁ phase arrest. Epanorin also exhibits antibacterial activity and can be used in studies related to cancer, such as breast cancer, as well as infections like Streptococcus pneumoniae (S. pneumonia) infection.
Targets(IC50)	Cell Cycle Arrest
In vitro	Epanorin exhibits potent inhibitory activity against breast cancer cell lines, with effectiveness reaching up to 80%, and shows moderate inhibition of meningioma, up to 40%. At a concentration of 28 µM, Epanorin reduces the number of MCF-7 cell colonies. Additionally, Epanorin (28 µM, 48 h) decreases reactive oxygen species production in MCF-7 cells induced by Doxorubicin. It also causes G ₀ /G ₁ phase arrest in MCF-7 cells under the same conditions. However, Epanorin (28 µM, 12 h) does not lead to detectable DNA fragmentation in MCF-7 cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2963 mL	11.4816 mL	22.9632 mL
5 mM	0.4593 mL	2.2963 mL	4.5926 mL
10 mM	0.2296 mL	1.1482 mL	2.2963 mL
50 mM	0.0459 mL	0.2296 mL	0.4593 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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