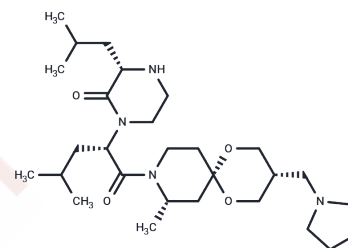


Antitumor agent-23

Chemical Properties

CAS No. :	2355185-12-3
Formula:	C ₂₈ H ₅₀ N ₄ O ₄
Molecular Weight:	506.72
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	Antitumor agent-23 exhibits potent antitumoral activity, as demonstrated by its GI50 values of 38, 48, 5, 27, 80, and 28 nM against the lymphoma cell lines GRANTA-519, KARPAS-422, KARPAS-299, RAMOS, DAUDI, and RAJI respectively.
Targets(IC50)	Others
In vitro	Antitumor agent-23, ranging from 0.001 to 100 μM over five days, effectively inhibits the proliferation of various lymphoma cell lines[1]. In HPV-positive cervical cancer cells, concentrations between 2 and 70 nM over 72 hours significantly upregulate p53 protein levels and induce acetylation at lysine 382 of p53 (K382Ac-p53)[1]. Detailed Cell Proliferation Assay findings reveal GI50 values of 38, 48, 5, 27, 80, and 28 nM for GRANTA-519, KARPAS-422, KARPAS-299, RAMOS, DAUDI, and RAJI cell lines, respectively, over a five-day period[1]. Western Blot Analysis conducted on the HPV16-positive cervical cancer cell line (CaSki) demonstrated noticeable p53 protein expression enhancement starting at 7 nM and noticeable acetylation at p53 lysine 382 starting at 20 nM over a 72-hour incubation period[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9735 mL	9.8674 mL	19.7348 mL
5 mM	0.3947 mL	1.9735 mL	3.947 mL
10 mM	0.1973 mL	0.9867 mL	1.9735 mL
50 mM	0.0395 mL	0.1973 mL	0.3947 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

Marc Labelle, et al. 1 -(piperidinocarbonylmethyl)-2-oxopiperazine derivatives for treating cancer. WO2019118973A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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