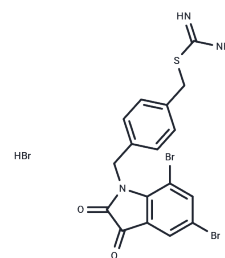


KS100

Chemical Properties

CAS No. : 2408477-54-1
 Formula: C₁₇H₁₄Br₃N₃O₂S
 Molecular Weight: 564.09
 Storage: Powder: -20°C for 3 years
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	KS100 is a selective and potent ALDH inhibitor with antiproliferative and anticancer activities. KS100 inhibits ALDH1A1, ALDH2 and ALDH3A1 with IC ₅₀ of 334, 2137 and 360 nM, respectively. KS100 promotes apoptosis and induces cell-cycle arrest, which can be used to study colon cancer.
Targets(IC ₅₀)	Apoptosis, Dehydrogenase
In vitro	In HCT116 and HT29 cell lines, KS100 (5 μM; 24 hours) induces cell apoptosis[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (177.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7728 mL	8.8638 mL	17.7277 mL
5 mM	0.3546 mL	1.7728 mL	3.5455 mL
10 mM	0.1773 mL	0.8864 mL	1.7728 mL
50 mM	0.0355 mL	0.1773 mL	0.3546 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

Dinavahi SS, et al. Design, synthesis characterization and biological evaluation of novel multi-isoform ALDH inhibitors as potential anticancer agents. Eur J Med Chem. 2020 Feb 1;187:111962.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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