

KS106

Chemical Properties

CAS No. : 2408477-50-7

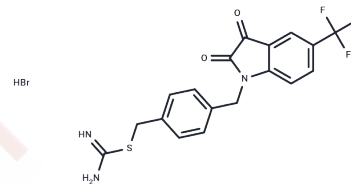
Formula: C₁₈H₁₅BrF₃N₃O₂S

Molecular Weight: 474.3

Storage: Store at low temperature, Keep away from direct sunlight

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	KS106 is a selective and potent ALDH inhibitor with antiproliferative and anticancer activity, inhibits ALDH1A1, ALDH2, and ALDH3A1 with IC ₅₀ of 334, 2137, and 360 nM, respectively. KS106 contributes to apoptosis, induces an increase in G ₂ /M cell cycle arrest, and can be used to study melanoma and colon cancer.
Targets(IC ₅₀)	Apoptosis, Dehydrogenase
In vitro	In HCT116 and HT29 cells, KS106 (5 μM; 24 hours) induces cell apoptosis[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (168.67 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1084 mL	10.5419 mL	21.0837 mL
5 mM	0.4217 mL	2.1084 mL	4.2167 mL
10 mM	0.2108 mL	1.0542 mL	2.1084 mL
50 mM	0.0422 mL	0.2108 mL	0.4217 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

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481