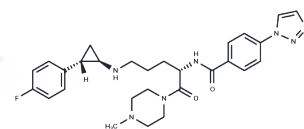
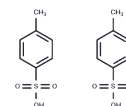


Bomedemstat ditosylate

Chemical Properties

CAS No. : 1990504-72-7
 Formula: C42H50FN7O8S2
 Molecular Weight: 864.02
 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	Bomedemstat ditosylate (IMG-7289 ditosylate) is an orally active lysine-specific demethylase 1 (LSD1) inhibitor with antitumor activity that potentiates the response to PD-1 inhibition in a homozygous model of SCLC, inhibits cancer cell proliferation, and induces apoptosis. Bomedemstat ditosylate can be used to study myeloproliferative neoplasms and myelofibrosis.
Targets(IC50)	Apoptosis,Histone Demethylase
In vitro	Bomedemstat selectively inhibits proliferation and induces apoptosis of Jak2V617F cells by concomitantly increasing expression and methylation of p53;Bomedemstat (50 nM-1 μM; 96 h) enhances survival, induces apoptosis via BCL-XL and PUMA in a TP53-dependent manner, and leads to cell cycle arrest.[1]
In vivo	Bomedemstat treatment (oral gavage; 45mg/kg; once daily; 56 d) normalizes or improves blood cell counts, reduces spleen volumes, restores normal splenic architecture, and reduces bone marrow fibrosis[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (92.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1574 mL	5.7869 mL	11.5738 mL
5 mM	0.2315 mL	1.1574 mL	2.3148 mL
10 mM	0.1157 mL	0.5787 mL	1.1574 mL
50 mM	0.0231 mL	0.1157 mL	0.2315 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

Jutzi JS, et al. LSD1 Inhibition Prolongs Survival in Mouse Models of MPN by Selectively Targeting the Disease Clone. *Hemasphere*. 2018 Jun 8;2(3):e54.

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