

EEDi-5285

Chemical Properties

CAS No. : 2488952-40-3

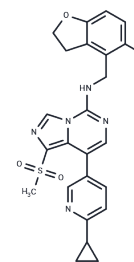
Formula: C₂₄H₂₂FN₅O₃S

Molecular Weight: 479.53

Keep away from direct sunlight

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	EEDi-5285, an orally active and highly potent inhibitor targeting embryonic ectoderm development (EED) protein, exhibits anti-cancer activity. It demonstrates exceptional efficacy with an IC ₅₀ value of 0.2 nM, indicating robust binding affinity to the EED protein.
Targets(IC ₅₀)	Histone Methyltransferase
In vitro	EEDi-5285 effectively suppresses cell proliferation in lymphoma cell lines Pfeiffer and KARPAS422, which possess an EZH2 mutation, demonstrating inhibition concentrations (IC ₅₀) of 20 pM and 0.5 nM, respectively[1].
In vivo	EEDi-5285 (compound 28; 50-100 mg/kg; oral gavage; daily; for 28 days; SCID mice) treatment results in complete and durable tumor regression in the KARPAS422 xenograft model. A single 100 mg/kg oral dose reduces H3K27me3 levels at 24 h in KARPAS422 tumor tissue. The compound achieves a C _{max} of 1.8 μM, an AUC of 6.0 hμg/ml with 10 mg/kg orally, and an oral bioavailability (F) of 75%. It has a moderate volume of distribution of 1.4 L/kg and a terminal T _{1/2} of approximately 2 h[1].

Solubility Information

Solubility	DMSO: 112.5 mg/mL (234.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0854 mL	10.4269 mL	20.8538 mL
5 mM	0.4171 mL	2.0854 mL	4.1708 mL
10 mM	0.2085 mL	1.0427 mL	2.0854 mL
50 mM	0.0417 mL	0.2085 mL	0.4171 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

Rohan Kalyan Rej, et al. EEDi-5285: An Exceptionally Potent, Efficacious, and Orally Active Small-Molecule Inhibitor of Embryonic Ectoderm Development. *J Med Chem.* 2020 Jul 9;63(13):7252-7267.

Inhibition of EED-mediated histone methylation alleviates neuroinflammation by suppressing WNT-mediated dendritic cell migration

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