

FLT3-IN-28

Chemical Properties

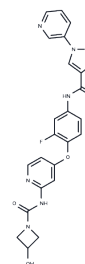
CAS No. :

Formula: C23H19FN8O4

Molecular Weight: 490.447

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	FLT3-IN-28 (Compound 12y) is an orally active FLT3 inhibitor with antitumor properties. It selectively targets cancer cells with FLT3 internal tandem duplication (ITD) mutations, demonstrating IC50 values of 85, 290, 130, 65, and 220 nM against BaF3-FLT3-ITD, BaF3-TEL-VEGFR2, MV4-11, MOLM-13, and MOLM-14 cell lines, respectively. These lines include acute myeloid leukemia (AML) cells harboring FLT3-ITD mutations such as MV4-11 and MOLM-13/14. The compound also reduces phosphorylation levels of FLT3 and STAT5 in MOLM-13 cells, leading to cell cycle arrest and apoptosis. With an oral bioavailability of 19.2% in SD rats, FLT3-IN-28 extends survival in a dose-dependent manner in MOLM-13 xenografted NSG mouse models. It holds promise for research in FLT3-ITD-related cancer studies.
Targets(IC50)	Apoptosis,FLT,STAT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0389 mL	10.1947 mL	20.3894 mL
5 mM	0.4078 mL	2.0389 mL	4.0779 mL
10 mM	0.2039 mL	1.0195 mL	2.0389 mL
50 mM	0.0408 mL	0.2039 mL	0.4078 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.

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