

FLT3-IN-32

Chemical Properties

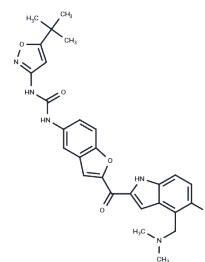
CAS No. : 3047195-48-9

Formula: C₂₈H₂₉N₅O₅

Molecular Weight: 515.56

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-32 is a potent FLT3 inhibitor with high selectivity, effectively suppressing FLT3 activating mutations and inducing apoptosis. It demonstrates good tolerance in non-tumor-bearing mice. In NOD/SCID mice loaded with MV4-11 cells, FLT3-IN-32 exhibits outstanding antitumor efficacy, significantly extending mouse survival. FLT3-IN-32 is applicable for acute myeloid leukemia research.
Targets(IC50)	Apoptosis,FLT
In vitro	FLT3-IN-32 (Compound 29c) effectively suppresses the proliferation of Ba/F3 cells expressing four mutant FLT3 subtypes, within a concentration range of 0.3-218.7 nM over 72 hours. This compound demonstrates good selectivity and safety towards FLT3-ITD positive cells at concentrations between 1 μM and 1 M. In addition, FLT3-IN-32 (100-500 nM, 48 h) can induce apoptosis in Ba/F3 cells with mutant FLT3 subtypes. Furthermore, it reduces the phosphorylation levels of FLT3 and its downstream signaling molecules, STAT5 and MAPK, at concentrations of 1-50 nM over 4 hours.
In vivo	FLT3-IN-32 (Compound 29c) administered orally at doses of 20-75 mg/kg once daily for 5 days demonstrates significant antitumor activity in NOD/SCID mice bearing MV4-11 cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9396 mL	9.6982 mL	19.3964 mL
5 mM	0.3879 mL	1.9396 mL	3.8793 mL
10 mM	0.194 mL	0.9698 mL	1.9396 mL
50 mM	0.0388 mL	0.194 mL	0.3879 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