

FTO-IN-14

Chemical Properties

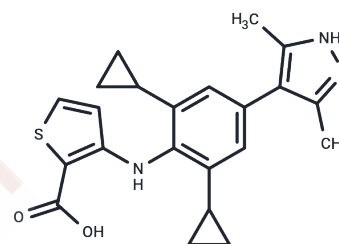
CAS No. :

Formula: C22H23N3O2S

Molecular Weight: 393.502

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	FTO-IN-14 (Compound F97) is an inhibitor of the RNA demethylase Fat mass and obesity-associated protein (FTO), with an IC ₅₀ of 0.45 μM. It modulates the expression of the ASB2, RARA, and MYC proteins. FTO-IN-14 demonstrates antiproliferative activity in AML cancer cells, with IC ₅₀ values of 0.7-5.5 μM against MOLM13, NB4, HEL, OCI-AML3, MV4-11, and MONOMAC6, and induces apoptosis in NB4 cells. Additionally, FTO-IN-14 exhibits antitumor activity in a mouse NB4 xenograft model.
Targets(IC ₅₀)	Apoptosis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5413 mL	12.7065 mL	25.413 mL
5 mM	0.5083 mL	2.5413 mL	5.0826 mL
10 mM	0.2541 mL	1.2706 mL	2.5413 mL
50 mM	0.0508 mL	0.2541 mL	0.5083 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

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