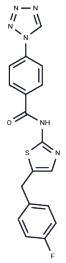
Data Sheet (Cat.No.T78904)

TargetMol

Anticancer agent 110

Chemical Properties



CAS No. : 887349-03-3

Formula: C18H13FN6OS

Molecular Weight: 380.4

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	Anticancer agent 110 is an anticancer compound with cytotoxic, antitumor, and antileukemic activity that triggers DNA damage and apoptosis and is used in the study of chronic granulocytic leukemia.
Targets(IC50)	Apoptosis
In vitro	Anticancer agent 110 exhibited an inhibitory effect on leukemic K-562 cells at concentrations ranging from 0.01 μM to 100 μM, with an IC50 value of 0.7 μM. The compound triggered higher levels of DNA damage in K-562 cells after 24 hours of treatment at concentrations of 70 nM and 700 nM, and also caused cellular morphological changes, exhibiting apoptotic features. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6288 mL	13.1441 mL	26.2881 mL
5 mM	0.5258 mL	2.6288 mL	5.2576 mL
10 mM	0.2629 mL	1.3144 mL	2.6288 mL
50 mM	0.0526 mL	0.2629 mL	0.5258 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

Pokhodylo N, et al. Bioisosteric replacement of 1H-1,2,3-triazole with 1H-tetrazole ring enhances anti-leukemic activity of (5-benzylthiazol-2-yl)benzamides. Eur J Med Chem. 2023 Mar 15;250:115126.

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