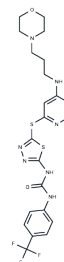


Anticancer agent 164

Chemical Properties

CAS No. :	2235393-30-1
Formula:	C ₂₁ H ₂₃ F ₃ N ₈ O ₂ S ₂
Molecular Weight:	540.58
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	CML-IN-1, also known as compound 7 and compound 4, is a potent anticancer agent that demonstrates a strong induced-apoptosis effect in the human chronic myeloid leukemia (CML) cell line K562. It diminishes protein phosphorylation within the PI3K/Akt signaling pathway to exert its effects and suppresses cell proliferation through the inhibition of the MEK/ERK signaling pathway in colorectal cancer [1] [2].
Targets(IC50)	Apoptosis,MEK,PI3K
In vitro	CML-IN-1 (compound 7) demonstrated minimal cytotoxicity and enhanced bioactivity in cellular assays (K562, IC ₅₀ : 0.038 μM) [1]. CML-IN-1 (compound 4) significantly inhibited HCT116 cell proliferation with IC ₅₀ values of 8.04 ± 0.94 μM at 48 hours and 5.52 ± 0.42 μM at 72 hours, suppressed colony formation, migration, and invasion in a dose-dependent manner, induced apoptosis, caused cell cycle arrest at the G ₂ /M phase, and inhibited MEK/ERK signaling pathway activation [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8499 mL	9.2493 mL	18.4986 mL
5 mM	0.370 mL	1.8499 mL	3.6997 mL
10 mM	0.185 mL	0.9249 mL	1.8499 mL
50 mM	0.037 mL	0.185 mL	0.370 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