

FLT3-IN-13

Chemical Properties

CAS No. :

Formula: C₂₀H₁₄N₄O₂

Molecular Weight: 342.35

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-13 (compound 20) is a highly effective inhibitor targeting both topoisomerase II and FLT3 proteins in leukemic cells, with IC ₅₀ values of 2.26 μM for both. It induces cell cycle arrest at the G ₂ /M phase, promotes apoptosis, and displays considerable anticytotoxic activity specifically against leukemia [1].
Targets(IC ₅₀)	Apoptosis,Others,FLT,Topoisomerase
In vitro	FLT3-IN-13 (compound 20) exhibits potent antiproliferative effects against HL-60 cells, with an IC ₅₀ of 0.48 ± 0.08 μM [1]. It induces cell cycle arrest at the G ₂ /M phase (G ₁ %: 24.76 ± 1.00, S%: 21.26 ± 1.72, G ₂ %: 32.78 ± 2.21) and triggers apoptosis, with an early-apoptosis rate of 6.13 ± 1.20% and late-apoptosis of 13.06 ± 0.40% [1]. Furthermore, FLT3-IN-13 significantly upregulates P53, TNFα, and caspase 3/7, and increases the Bax/Bcl-2 ratio in HL-60 cells, detailing its mechanism of inducing apoptotic cell death [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.921 mL	14.6049 mL	29.2099 mL
5 mM	0.5842 mL	2.921 mL	5.842 mL
10 mM	0.2921 mL	1.4605 mL	2.921 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481