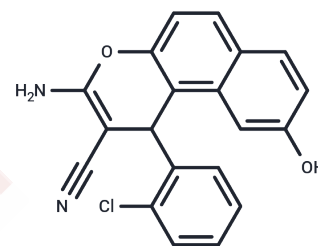


P-gp inhibitor 22

Chemical Properties

CAS No. :	1226674-74-3
Formula:	C ₂₀ H ₁₃ ClN ₂ O ₂
Molecular Weight:	348.78
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	P-gp Inhibitor 22 effectively inhibits P-glycoprotein (P-gp) and its efflux function, promoting apoptosis and the accumulation of MCF-7/ADR cells in the S phase [1].
Targets(IC50)	Apoptosis,P-gp
In vitro	P-gp inhibitor 22 (compound 4b; 6.25-100 μM; 24 hours) exhibits significant activity against MCF-7/ADR cells as demonstrated by its ability to induce apoptosis and cause cell cycle arrest at the S phase at a concentration of 5 μM over a 24-hour period [1]. This compound effectively inhibits several cell lines, including PC-3, SKOV-3, HeLa, MCF-7/ADR, HFL-1, and WI-38, with IC 50 values of 3.3 μM, 0.7 μM, 2.4 μM, 5.0 μM, 72.0 μM, and 61.1 μM, respectively [1]. Additionally, cytotoxicity assays performed on MCF-7/ADR cells show dose-dependent toxicity, with cell cycle analysis confirming cell cycle blockade and induction of apoptosis at 5 μM concentration within the S phase [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8671 mL	14.3357 mL	28.6714 mL
5 mM	0.5734 mL	2.8671 mL	5.7343 mL
10 mM	0.2867 mL	1.4336 mL	2.8671 mL
50 mM	0.0573 mL	0.2867 mL	0.5734 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