

FLT3-IN-29

## Chemical Properties

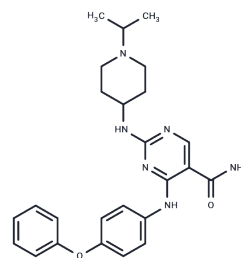
CAS No. :

Formula: C<sub>25</sub>H<sub>30</sub>N<sub>6</sub>O<sub>2</sub>

Molecular Weight: 446.545

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-29 (Compound MY-10) is an FLT3 inhibitor with IC <sub>50</sub> values of 6.5 nM and 10.3 nM for FLT3-ITD and FLT3-D835Y mutants, respectively. It induces cell cycle arrest at the G <sub>0</sub> /G <sub>1</sub> phase and effectively triggers apoptosis (Apoptosis). Additionally, FLT3-IN-29 reduces reactive oxygen species (ROS) and mitochondrial membrane potential (MMP), displaying anti-leukemic properties.
Targets(IC <sub>50</sub> )	Apoptosis,FLT,Reactive Oxygen Species,ROS
In vitro	FLT3-IN-29 exhibits significant antiproliferative activity against MV4-11 cells (IC <sub>50</sub> = 0.59 μM) [1]. When administered at concentrations ranging from 0.2 to 10 μM over 24 hours, FLT3-IN-29 causes cell cycle arrest at the G <sub>0</sub> /G <sub>1</sub> phase, induces apoptosis, and reduces ROS levels in MV4-11 cells [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2394 mL	11.197 mL	22.3939 mL
5 mM	0.4479 mL	2.2394 mL	4.4788 mL
10 mM	0.2239 mL	1.1197 mL	2.2394 mL
50 mM	0.0448 mL	0.2239 mL	0.4479 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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