FLT3-IN-6

Cat. No.: HY-128572

CAS No.: 2377141-31-4

Molecular Formula: $C_{23}H_{25}N_5O_3$

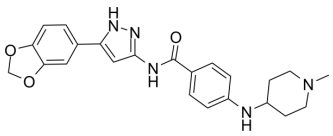
Molecular Weight: 419.48

Target: FLT3

Pathway: Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (595.98 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.3839 mL	11.9195 mL	23.8390 mL
5 mM	0.4768 mL	2.3839 mL	4.7678 mL
10 mM	0.2384 mL	1.1920 mL	2.3839 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FLT3-IN-6 is a potent and selective inhibitor of FLT3-ITD (FLT3 mutation) with an IC_{50} of 1.336 nM[1].

IC_{50} & Target

IC50: 1.336 nM (FLT3-ITD)[1]

REFERENCES

[1]. Heng H, et al. Combining structure- and property-based optimization to identify selective FLT3-ITD inhibitors with good antitumor efficacy in AML cell inoculated mouse xenograft model. Eur J Med Chem. 2019 Aug 15;176:248-267.

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