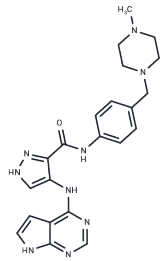
Data Sheet (Cat.No.T15335)

TargetMol

FN-1501

Chemical Properties



CAS No. : 1429515-59-2

Formula: C22H25N9O

Molecular Weight: 431.49

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	FN-1501 is a potent FLT3 and CDK inhibitor (IC50s: 2.47, 0.85, 1.96, and 0.28 nM for CDK2/cyclin A, CDK4/cyclin D1, CDK6/cyclin D1 and FLT3, respectively). FN-1501 also has anticancer activity.
Targets(IC50)	FLT,CDK
In vitro	FN-1501 displays potent inhibitory activity against several tumor cells, such as MGC803, RS4;11, MCF-7, HCT-116, and NCI-H82 (GI50s of 0.37 ± 0.04, 0.05 ± 0.01, 2.84 ± 0.25, 0.09 ± 0.04, 0.11 ± 0.02 nM, respectively)[1].
In vivo	FN-1501 shows potent antitumor activity and it also shows little cytotoxicity on normal lymphocyte cells (LD50: 185.67 mg/kg in ICR mice). FN-1501 (15. 30, or 40 mg/kg/d, i.v.) dose-dependently and obviously inhibits the growth of tumors in MV4-11-cell-inoculated-xenograft mice[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (347.63 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.64 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3176 mL	11.5878 mL	23.1755 mL
5 mM	0.4635 mL	2.3176 mL	4.6351 mL
10 mM	0.2318 mL	1.1588 mL	2.3176 mL
50 mM	0.0464 mL	0.2318 mL	0.4635 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.

Reference

Wang Y, et al. Discovery of 4-((7H-Pyrrolo[2,3-d]pyrimidin-4-yl)amino)-N-(4-((4-methylpiperazin-1-yl)methyl) phenyl)-1H-pyrazole-3-carboxamide (FN-1501), an FLT3- and CDK-Kinase Inhibitor with Potentially High Efficiency against Acute Myelocytic Leukemia. J Med Chem. 2018 Feb 22;61(4):1499-1518.