PF-07220060

Cat. No.: HY-139450

CAS No.: 2380321-51-5

Molecular Formula: $C_{22}H_{27}ClFN_5O_3$

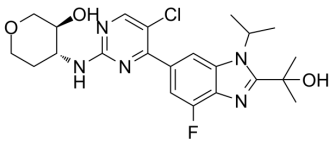
Molecular Weight: 463.93

Target: CDK

Pathway: Cell Cycle/DNA Damage

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (538.87 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1555 mL	10.7775 mL	21.5550 mL
	5 mM	0.4311 mL	2.1555 mL	4.3110 mL
	10 mM	0.2155 mL	1.0777 mL	2.1555 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PF-07220060 (CDK4/6-IN-6; example A94) is a potent CDK4/CDK6 inhibitor with a K_i of 0.6 nM and 13.9 nM for CDK4/Cyclin D1 and CDK6/Cyclin D3, respectively[1].

IC_{50} & Target

Cdk4/cyclin D1	cdk6/cyclin D3
0.6 nM (Ki)	13.9 nM (Ki)

In Vitro

PF-07220060 (CDK4/6-IN-6; example A94) has IC_{50}s of 38.5 nM and 144.9 nM for CDK4/Cyclin D1 and CDK6/Cyclin D3 using phospho-Rb S795 ELISA assays in JEKO-1 and MV4-1 1 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ping Chen, et al. 2-amino-pyridine or 2-amino-pyrimidine derivatives as cyclin dependent kinase inhibitors. WO2019207463A1.

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