CDK-IN-2

Cat. No.: HY-13033

CAS No.: 1269815-17-9

Molecular Formula: $C_{18}H_{19}ClFN_3O_2$

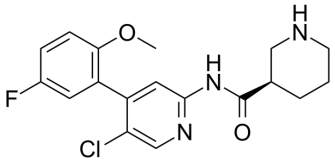
Molecular Weight: 363.81

Target: CDK

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (274.87 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.7487 mL	13.7434 mL	27.4869 mL
5 mM	0.5497 mL	2.7487 mL	5.4974 mL
10 mM	0.2749 mL	1.3743 mL	2.7487 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: ≥ 3.25 mg/mL (8.93 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3.25 mg/mL (8.93 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3.25 mg/mL (8.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CDK-IN-2 is a potent and specific CDK9 inhibitor with IC50 of <8 nM, extracted from reference 1, example 4.IC50 Value: <8 nM [1]Target: CDK9In vitro:In vivo:

IC_{50} & Target

CDK9/cyclinT1

8 nM (IC_{50})

CUSTOMER VALIDATION

- Cell Mol Life Sci. 2022 Aug 5;79(8):467.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Keith B Pfister, et al. Heteroaryl compounds as kinase inhibitors. 2011, WO2011026917A1.

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