AZD5597

Cat. No.: HY-50914

CAS No.: 924641-59-8

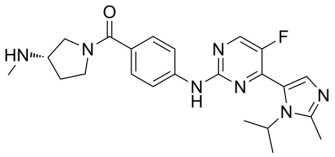
Molecular Formula: $C_{23}H_{28}FN_7O$

Molecular Weight: 437.51

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 : 100 mg/mL (228.57 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2857 mL	11.4283 mL	22.8566 mL
	5 mM	0.4571 mL	2.2857 mL	4.5713 mL
	10 mM	0.2286 mL	1.1428 mL	2.2857 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: ≥ 2.5 mg/mL (5.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.71 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AZD5597 is an inhibitor of CDK with an IC_{50} of 2 nM. AZD5597 has potent anti-proliferative effects against a range of cancer cell lines[1].

IC_{50} & Target

IC50: 2 nM (CDK2), 2 nM (CDK1), 39 nM (LoVo)[1]

REFERENCES

[1]. Jones CD, et al.The discovery of AZD5597, a potent imidazole pyrimidine amide CDK inhibitor suitable for intravenous dosing. Bioorg Med Chem Lett. 2008 Dec 15;18(24):6369-73.

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