CSNK1-IN-2

Cat. No.: HY-148491

CAS No.: 2468783-76-6

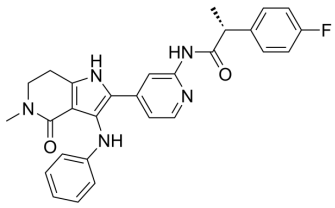
Molecular Formula: $C_{28}H_{26}FN_5O_2$

Molecular Weight: 483.54

Target: Others

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (20.68 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0681 mL	10.3404 mL	20.6808 mL
	5 mM	0.4136 mL	2.0681 mL	4.1362 mL
	10 mM	0.2068 mL	1.0340 mL	2.0681 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: ≥ 1 mg/mL (2.07 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (2.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CSNK1-IN-2 is a CSNK1A1 inhibitor. CSNK1-IN-1 has inhibitory activity for CSNK1A1 kinase with IC_{50} values of 2.52 μM. CSNK1-IN-2 can be used for the research of proliferative disorders[1].

IC_{50} & Target

IC50: 2.52 μM (CSNK1A1 kinase)[1]

In Vitro

CSNK1-IN-2 (example 7) has inhibitory activity for CSNK1A1, CSNK1D and CSNK1A1 (in high ATP) with IC_{50} values of 2.52 μM, 8.48 μM and 107 μM, respectively[1].
CSNK1-IN-2 shows inhibition for wild type-EGFR kinase with an IC_{50} value of 2.74 nM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Volker Schulze, et al. 3-amino-2-[2-(acylamino)pyridin-4-yl]-1,5,6,7-tetrahydro-4h-pyrrolo[3,2-c]pyridin-4-one as csnk1 inhibitors. Patent. WO2020161257 A1.

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