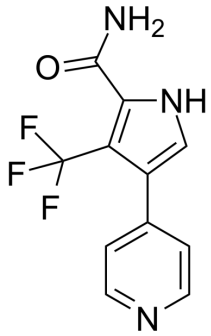
CDK8-IN-1

Cat. No.:	HY-103492
CAS No.:	1629633-48-2
Molecular Formula:	$C_{11}H_8F_3N_3O$
Molecular Weight:	255.2
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (391.85 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.9185 mL	19.5925 mL	39.1850 mL
5 mM	0.7837 mL	3.9185 mL	7.8370 mL
10 mM	0.3918 mL	1.9592 mL	3.9185 mL

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

BIOLOGICAL ACTIVITY

Description

CDK8-IN-1 is a potent and selective CDK8 inhibitor with an IC_{50} of 3 nM.

IC_{50} & Target

CDK8
3 nM (IC_{50})

In Vivo

CDK8-IN-1 displays low systemic clearance, very good exposure and oral bioavailability. The t_{max} is 0.25 h by PO. The mean values of C_{max} are 9940 μg/L, 12740 μg/L by IV and PO respectively. The values of AUC are 9378, 25952 by IV and PO respectively[1].

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

PROTOCOL

Animal

Mice[1]

Administration [1]	CDK8-IN-1 is administrated to mice with 5 mg/kg, 25mg/mg by IV and PO respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Han X, et al. Discovery of potent and selective CDK8 inhibitors through FBDD approach. Bioorg Med Chem Lett. 2017 Sep 15;27(18):4488-4492.

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