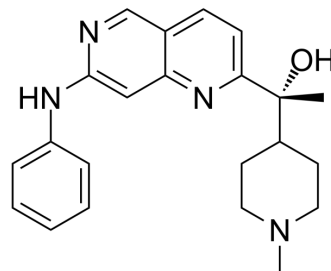


CDK5-IN-3

Cat. No.:	HY-145694		
CAS No.:	2639542-32-6		
Molecular Formula:	C ₂₂ H ₂₆ N ₄ O		
Molecular Weight:	362.47		
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 : 10 mg/mL (27.59 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7588 mL	13.7942 mL	27.5885 mL
5 mM	0.5518 mL	2.7588 mL	5.5177 mL
10 mM	0.2759 mL	1.3794 mL	2.7588 mL

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

BIOLOGICAL ACTIVITY

Description

CDK5-IN-3 (compound 11) is a potent and selective CDK5 inhibitor, with IC₅₀s of 0.6 nM and 18 nM for CDK5/p25 and CDK2/CycA, respectively. CDK5-IN-3 can be used for the research of autosomal dominant polycystic kidney disease (ADPKD) [1].

IC₅₀ & Target

Cdk5/p25 0.6 nM (IC ₅₀)	CDK2/CycA 18 nM (IC ₅₀)
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REFERENCES

[1]. Discovery and Optimization of Highly Selective Inhibitors of CDK5. J Med Chem. 2022 Feb 24;65(4):3575-3596.

Caution: Product has not been fully validated for medical applications. For research use only.

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