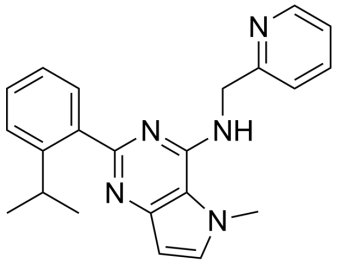
PI5P4Ks-IN-2

Cat. No.:	HY-153526
CAS No.:	2766854-03-7
Molecular Formula:	$C_{22}H_{23}N_5$
Molecular Weight:	357.45
Target:	PI5P4K
Pathway:	Metabolic Enzyme/Protease
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 : 125 mg/mL (349.70 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7976 mL	13.9880 mL	27.9759 mL
	5 mM	0.5595 mL	2.7976 mL	5.5952 mL
	10 mM	0.2798 mL	1.3988 mL	2.7976 mL

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

BIOLOGICAL ACTIVITY

Description

PI5P4Ks-IN-2 is a inhibitor of phosphatidylinositol 5-phosphate 4-kinase γ (PI5P4Kγ). PI5P4Ks-IN-2 targets to PI5P4K isoforms with pIC_{50} values of <4.3 (PI5P4Kα), <4.6 (PI5P4Kβ), 6.2 (PI5P4Kγ), 0.32 (PI5P4Kγ+), respectively[1].

IC_{50} & Target

PI5P4K[1]

In Vitro

PI5P4Ks-IN-2 (compound 40) (10 μM) shows selectivity against a panel of 140 protein kinases and 15 lipid kinases, and binds to PI5P4Kγ-WT (K_i=68 nM) or PI5P4Kβ (K_i >30,000 nM)[1].

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

REFERENCES

[1]. Boffey HK, et al. Development of Selective Phosphatidylinositol 5-Phosphate 4-Kinase γ Inhibitors with a Non-ATP-competitive, Allosteric Binding Mode. J Med Chem. 2022 Feb 24;65(4):3359-3370.

[2]. Boffey HK, et al. Development of Selective Phosphatidylinositol 5-Phosphate 4-Kinase γ Inhibitors with a Non-ATP-competitive, Allosteric Binding Mode. J Med Chem. 2022 Feb 24;65(4):3359-3370.

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