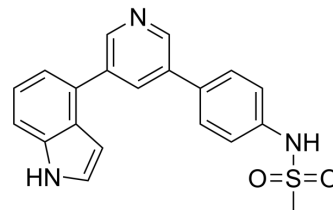


PI5P4K α -IN-1

Cat. No.:	HY-153531		
CAS No.:	2428737-31-7		
Molecular Formula:	C ₂₀ H ₁₇ N ₃ O ₂ S		
Molecular Weight:	363.43		
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 : 200 mg/mL (550.31 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7516 mL	13.7578 mL	27.5156 mL
	5 mM	0.5503 mL	2.7516 mL	5.5031 mL
	10 mM	0.2752 mL	1.3758 mL	2.7516 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 5 mg/mL (13.76 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: 5 mg/mL (13.76 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 5 mg/mL (13.76 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

PI5P4K α -IN-1 (Compound 13) is a PI5P4Kinhibitor (IC₅₀: 2 and 9.4 μ M for PI5P4K α and PI5P4K β). PI5P4K α -IN-1 can be used for research of cancer, metabolic and immunological disorders^[1].

REFERENCES

[1]. Manz TD, et al. Discovery and Structure-Activity Relationship Study of (Z)-5-Methylenethiazolidin-4-one Derivatives as Potent and Selective Pan-phosphatidylinositol 5-Phosphate 4-Kinase Inhibitors. J Med Chem. 2020 May 14;63(9):4880-4895.

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

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