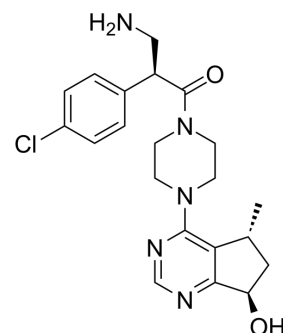


Ipatasertib-NH2

Cat. No.:	HY-130988		
CAS No.:	1001382-14-4		
Molecular Formula:	C ₂₁ H ₂₆ ClN ₅ O ₂		
Molecular Weight:	415.92		
Target:	Ligands for Target Protein for PROTAC		
Pathway:	PROTAC		
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 : 210 mg/mL (504.90 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	2.4043 mL	12.0215 mL	24.0431 mL
	5 mM	0.4809 mL	2.4043 mL	4.8086 mL
	10 mM	0.2404 mL	1.2022 mL	2.4043 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5.25 mg/mL (12.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 5.25 mg/mL (12.62 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5.25 mg/mL (12.62 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Ipatasertib-NH2 (GDC-0068-NH2;RG7440-NH2) is a ligand for target protein AKT for PROTAC (INY-03-041). INY-03-041 is composed of Ipatasertib-NH2, a ten-hydrocarbon linker, and a CRBN ligand Lenalidomide for E3 ubiquitin ligase ^[1] .
IC₅₀ & Target	AKT ^[1]
In Vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins.

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

REFERENCES

[1]. You I, et al. Discovery of an AKT Degradator with Prolonged Inhibition of Downstream Signaling. Cell Chem Biol. 2020 Jan 16;27(1):66-73.e7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA