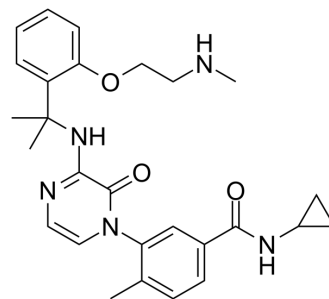


p38α inhibitor 2

Cat. No.:	HY-131335		
CAS No.:	1095003-80-7		
Molecular Formula:	C ₂₇ H ₃₃ N ₅ O ₃		
Molecular Weight:	475.58		
Target:	p38 MAPK		
Pathway:	MAPK/ERK Pathway		
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 : 250 mg/mL (525.67 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1027 mL	10.5135 mL	21.0270 mL
		5 mM	0.4205 mL	2.1027 mL	4.2054 mL
10 mM		0.2103 mL	1.0513 mL	2.1027 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (13.14 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 6.25 mg/mL (13.14 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (13.14 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	p38α inhibitor 2 is a highly potent and selective p38α MAPK inhibitor, with a pIC ₅₀ of 9.6. p38α inhibitor 2 inhibits the hERG ion channel (IC ₅₀ =27 μM) and shows a promising selectivity profile when tested in a panel of 51 other protein kinases (<30% inhibition at 10 μM concentration) and a panel of 141 other biological targets ^[1] .
IC ₅₀ & Target	p38α MAPK 9.6 (pIC ₅₀)

REFERENCES

[1]. Raubo P, et al. The discovery and evaluation of 3-amino-2(1H)-pyrazinones as a novel series of selective p38 α MAP kinase inhibitors [published online ahead of print, 2020 Jul 15]. Bioorg Med Chem Lett. 2020;30(18):127412.

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

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