MAPK13-IN-1

Cat. No.:	HY-18850		
CAS No.:	229002-10-2	2	
Molecular Formula:	$C_{20}H_{23}N_5O_2$		
Molecular Weight:	365.43		
Target:	р38 МАРК; А	Autophag	у
Pathway:	MAPK/ERK F	Pathway;	Autophagy
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	1 year
		-20°C	6 months

®

MedChemExpress

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 250 mg/mL (684.13 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
Preparing 1 mM 2.73 Stock Solutions	2.7365 mL	13.6825 mL	27.3650 mL			
	5 mM 0.5473 mL 2.7365 mL	5.4730 mL				
		10 mM	0.2737 mL	1.3683 mL	2.7365 mL	
	Please refer to the sol	ubility information to select the app	propriate solvent.			
In Vivo	 Add each solvent of Solubility: ≥ 2.08 m Add each solvent of 	one by one: 10% DMSO >> 40% PEC ng/mL (5.69 mM); Clear solution one by one: 10% DMSO >> 90% (20)	5300 >> 5% Tween-8 % SBE-β-CD in saline)	0 >> 45% saline		
	Solubility: ≥ 2.08 n 3. Add each solvent c Solubility: ≥ 2.08 n	ng/mL (5.69 mM); Clear solution one by one: 10% DMSO >> 90% cor ng/mL (5.69 mM); Clear solution	n oil			

BIOLOGICAL ACTIVI	ТТУ
Description	MPAK13-IN-1 is a MAPK13 (p38 δ) inhibitor, with an IC ₅₀ of 620 nM.
IC₅₀ & Target	MAPK13 (p38δ) 620 nM (IC ₅₀)
In Vitro	MPAK13-IN-1 exhibits an IC $_{50}$ of 4.63 μM in vero E6 cells $^{[2]}.$

Product Data Sheet

N

 \leftarrow

Cell Viability Assay ^[2]	
Cell Line:	Vero E6 cells ^[2] .
Concentration:	0-100 μM.
Incubation Time:	
Result:	Exhibited an IC ₅₀ of 4.63 μ M.

CUSTOMER VALIDATION

- Cell. 2020 Aug 6;182(3):685-712.e19.
- Stem Cells. 2022 May 27;40(5):508-522.
- Stem Cells. 26 February 2022.
- J Biol Chem. 2023 Aug 18;105175.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Yurtsever Z, et al. First comprehensive structural and biophysical analysis of MAPK13 inhibitors targeting DFG-in and DFG-out binding modes. Biochim Biophys Acta. 2016 Nov;1860(11 Pt A):2335-2344.

[2]. Mehdi Bouhaddou, et al. The Global Phosphorylation Landscape of SARS-CoV-2 Infection. Cell. 2020 Aug 6;182(3):685-712.e19.

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