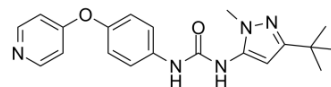


MAPK13-IN-1

Cat. No.:	HY-18850		
CAS No.:	229002-10-2		
Molecular Formula:	C ₂₀ H ₂₃ N ₅ O ₂		
Molecular Weight:	365.43		
Target:	p38 MAPK; Autophagy		
Pathway:	MAPK/ERK Pathway; Autophagy		
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 (684.13 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		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 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: ≥ 2.08 mg/mL (5.69 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.08 mg/mL (5.69 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.08 mg/mL (5.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	MPAK13-IN-1 is a MAPK13 (p38δ) inhibitor, with an IC ₅₀ of 620 nM.
IC ₅₀ & Target	MAPK13 (p38δ) 620 nM (IC ₅₀)

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.

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

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