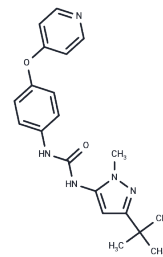


MAPK13-IN-1

Chemical Properties

CAS No. :	229002-10-2
Formula:	C ₂₀ H ₂₃ N ₅ O ₂
Molecular Weight:	365.43
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	MAPK13-IN-1 is a potent MAPK13 (p38 δ) inhibitor (IC ₅₀ : 620 nM).
Targets(IC ₅₀)	Autophagy, p38 MAPK

Solubility Information

Solubility	DMSO: 73.09 mg/mL (200.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.47 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7365 mL	13.6825 mL	27.365 mL
5 mM	0.5473 mL	2.7365 mL	5.473 mL
10 mM	0.2737 mL	1.3683 mL	2.7365 mL
50 mM	0.0547 mL	0.2737 mL	0.5473 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Bouhaddou M, et al. The Global Phosphorylation Landscape of SARS-CoV-2 Infection. *Cell*. 2020 Aug 6;182(3):685-71e19.

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