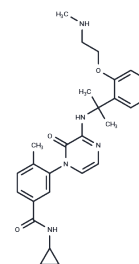


p38 $\alpha$  inhibitor 2

## Chemical Properties

CAS No. :	1095003-80-7
Formula:	C <sub>27</sub> H <sub>33</sub> N <sub>5</sub> O <sub>3</sub>
Molecular Weight:	475.58
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	P38 $\alpha$ Inhibitor 2, a potent and selective inhibitor of p38 $\alpha$ MAPK, exhibits a pIC <sub>50</sub> value of 9.6. It also demonstrates inhibition of the hERG ion channel (IC <sub>50</sub> =27 $\mu$ M) and maintains promising selectivity, with <30% inhibition across a panel of 51 protein kinases at a 10 $\mu$ M concentration and a broad specificity against 141 other biological targets[1].
Targets(IC <sub>50</sub> )	Others,p38 MAPK

## Solubility Information

Solubility	DMSO: 250 mg/mL (525.67 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: 5 mg/mL (10.51 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	2.1027 mL	10.5135 mL	21.027 mL
5 mM	0.4205 mL	2.1027 mL	4.2054 mL
10 mM	0.2103 mL	1.0513 mL	2.1027 mL
50 mM	0.0421 mL	0.2103 mL	0.4205 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

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

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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