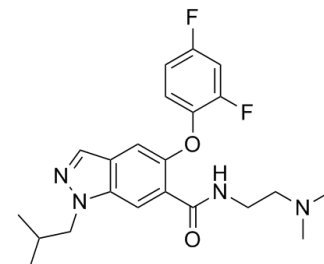


## p38α inhibitor 1

Cat. No.:	HY-114423		
CAS No.:	1034189-82-6		
Molecular Formula:	C <sub>22</sub> H <sub>26</sub> F <sub>2</sub> N <sub>4</sub> O <sub>2</sub>		
Molecular Weight:	416.46		
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 : ≥ 125 mg/mL (300.15 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4012 mL	12.0060 mL	24.0119 mL
	5 mM	0.4802 mL	2.4012 mL	4.8024 mL
	10 mM	0.2401 mL	1.2006 mL	2.4012 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.08 mg/mL (4.99 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**  
Solubility: ≥ 2.08 mg/mL (4.99 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**  
Solubility: ≥ 2.08 mg/mL (4.99 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

p38α inhibitor 1 is a p38α inhibitor extracted from patent WO 2008076265 A1.

#### IC<sub>50</sub> & Target

p38α

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## REFERENCES

[1]. Baker W, et al. Monophosphates as mutual prodrugs of anti-inflammatory signal transduction modulators (aistm's) and  $\beta$ -agonists for the treatment of pulmonary inflammation and bronchoconstriction. WO 2008076265 A1.

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

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