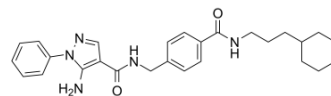


SR-318

Cat. No.:	HY-135674
CAS No.:	2413286-32-3
Molecular Formula:	C ₂₇ H ₃₃ N ₅ O ₂
Molecular Weight:	459.58
Target:	p38 MAPK; TNF Receptor
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (271.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1759 mL	10.8795 mL	21.7590 mL
		5 mM	0.4352 mL	2.1759 mL	4.3518 mL
10 mM		0.2176 mL	1.0879 mL	2.1759 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.53 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.53 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.53 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	SR-318 is a potent and highly selective p38 MAPK inhibitor with IC ₅₀ s of 5 nM, 32 nM and 6.11 μM for p38α, p38β and p38α/β, respectively. SR-318 potently inhibits the TNF-α release in whole blood with an IC ₅₀ of 283 nM. SR-318 has anti-cancer and anti-inflammatory activity ^[1] .		
IC ₅₀ & Target	p38α 5 nM (IC ₅₀)	p38β 32 nM (IC ₅₀)	TNF-α 283 nM (IC ₅₀)
In Vitro	SR-318 presents a potent and selective type-II inhibitor of p38α/β that can be used as a chemical probe for targeting		

this particular inactive state of these two p38 isoforms^[1].

REFERENCES

[1]. Röhm S, et al. Fast Iterative Synthetic Approach toward Identification of Novel Highly Selective p38 MAP Kinase Inhibitors. J Med Chem. 2019 Dec 12;62(23):10757-10782.

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

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