

SR-318

## Chemical Properties

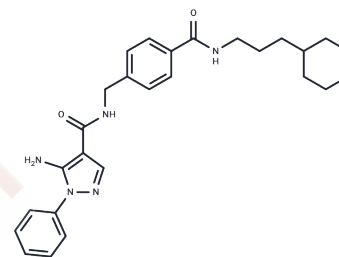
CAS No. : 2413286-32-3

Formula: C<sub>27</sub>H<sub>33</sub>N<sub>5</sub>O<sub>2</sub>

Molecular Weight: 459.58

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	SR-318 is a potent and highly selective inhibitor of p38 MAPK, demonstrating IC <sub>50</sub> values of 5 nM for p38 $\alpha$ , 32 nM for p38 $\beta$ , and 6.11 $\mu$ M for p38 $\alpha/\beta$ . It possesses both anti-cancer and anti-inflammatory activity.
Targets(IC <sub>50</sub> )	p38 MAPK,TNF
In vitro	SR-318 is a potent and selective type-II p38 $\alpha/\beta$ inhibitor, utilized as a chemical probe to target the inactive state of these p38 isoforms [1].

## Solubility Information

Solubility	DMSO: 125 mg/mL (271.99 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: 4 mg/mL (8.7 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.1759 mL	10.8795 mL	21.759 mL
5 mM	0.4352 mL	2.1759 mL	4.3518 mL
10 mM	0.2176 mL	1.0879 mL	2.1759 mL
50 mM	0.0435 mL	0.2176 mL	0.4352 mL

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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

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.

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