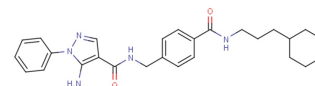


SR-318

## Chemical Properties

CAS No.:	T12997
Formula:	C <sub>27</sub> H <sub>33</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	459.58
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	SR-318 is a potent and highly selective inhibitor of p38 MAPK (IC <sub>50</sub> s of 5 nM, 32 nM and 6.11 μM for p38α, p38β and p38α/β, respectively), has anti-cancer and anti-inflammatory activity.
Targets(IC <sub>50</sub> )	p38α: 5 nM p38β: 32 nM TNF-α: 283 nM
In vitro	SR-318 presents a potent and selective type-II p38α/β inhibitor, it is used as a chemical probe for targeting this particular inactive state of these two p38 isoforms.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.176 mL	10.879 mL	21.759 mL
5 mM	0.435 mL	2.176 mL	4.352 mL
10 mM	0.218 mL	1.088 mL	2.176 mL
50 mM	0.044 mL	0.218 mL	0.435 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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