

AMG-548 hydrochloride (864249-60-5 free base)

## Chemical Properties

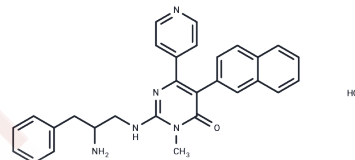
CAS No. :

Formula: C<sub>29</sub>H<sub>28</sub>ClN<sub>5</sub>O

Molecular Weight: 498.02

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                | AMG-548 hydrochloride is an orally active and selective p38 $\alpha$ inhibitor (K <sub>i</sub> : 0.5 nM) and shows slightly selective over p38 $\beta$ (K <sub>i</sub> : 36 nM) and >1000 fold selective against p38 $\gamma$ /p38 $\delta$ . It is also extremely potent in the inhibition of whole blood LPS stimulated TNF $\alpha$ (IC <sub>50</sub> : 3 nM). |
| Targets(IC <sub>50</sub> ) | p38 MAPK  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.008 mL  | 10.0398 mL | 20.0795 mL |
| 5 mM  | 0.4016 mL | 2.008 mL   | 4.0159 mL  |
| 10 mM | 0.2008 mL | 1.004 mL   | 2.008 mL   |
| 50 mM | 0.0402 mL | 0.2008 mL  | 0.4016 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

Lee MR, et al. MAP kinase p38 inhibitors: clinical results and an intimate look at their interactions with p38 $\alpha$  protein. *Curr Med Chem.* 2005;12(25):2979-94.

Verkaar F, et al. Inhibition of Wnt/ $\beta$ -catenin signaling by p38 MAP kinase inhibitors is explained by cross-reactivity with casein kinase 1 $\delta$ . *Chem Biol.* 2011 Apr 22;18(4):485-94.

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