

Product Name: AMG 548

Catalog No.: 3920

Batch No.: 2

CAS Number: 864249-60-5

IUPAC Name: 2-[[[(2S)-2-Amino-3-phenylpropyl]amino]-3-methyl-5-(2-naphthalenyl)-6-(4-pyridinyl)-4(3H)-pyrimidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₇N₅O.¾H₂O

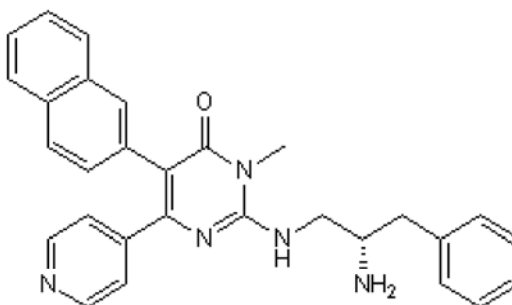
Batch Molecular Weight: 475.07

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity

Chiral HPLC: Shows 97.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.32	6.05	14.74
Found	72.99	5.75	14.66

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

AMG 548 is a potent and selective inhibitor of p38 α (K_i values are 0.5, 3.6, 2600 and 4100 nM for p38 α , p38 β , p38 γ and p38 δ respectively). Displays >1000-fold selectivity against 36 other kinases; inhibits whole blood LPS-stimulated TNF α (IC_{50} = 3 nM). Efficacious in acute and chronic models of arthritis.

Physical and Chemical Properties:

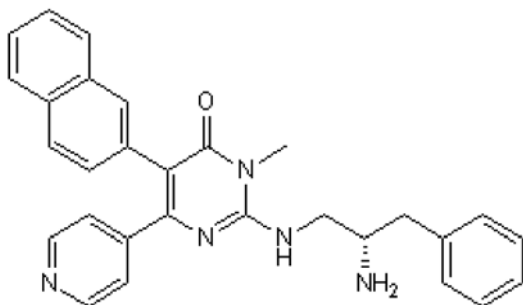
Batch Molecular Formula: C₂₉H₂₇N₅O. $\frac{3}{4}$ H₂O

Batch Molecular Weight: 475.07

Physical Appearance: Yellow solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Dominguez et al (2005) p38 MAP kinase inhibitors: many are made, but few are chosen. *Curr.Opin.Drug Discov.Devel.* **8** 421. PMID: 16022178.

Lee and Dominguez (2005) MAP kinase p38 inhibitors: clinical results and an intimate look at their interactions with p38 α protein. *Curr.Med.Chem.* **12** 2979. PMID: 16378500.

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