

Product Name: AMG 900

Catalog No.: 7865

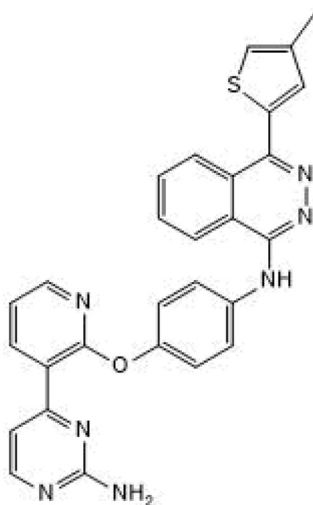
Batch No.: 1

CAS Number: 945595-80-2

IUPAC Name: *N*-[4-[[3-(2-Amino-4-pyrimidinyl)-2-pyridinyl]oxy]phenyl]-4-(4-methyl-2-thienyl)-1-phthalazinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₂₁N₇OS.H₂O
Batch Molecular Weight: 521.6
Physical Appearance: Off White solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.48	4.44	18.8
Found	63.65	4.37	18.48

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

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Description:

AMG 900 is a potent and selective pan-Aurora kinase inhibitor (IC₅₀ of 1 nM, 4 nM, and 5 nM for Aurora C, B, and A, respectively). It is more than 10-fold selective for Aurora kinases over JNK2, Tie2, p38α, Met, and TYK2. AMG 900 inhibits autophosphorylation of Aurora A and B, as well as the phosphorylation of histone H3 on Ser in HeLa cells. AMG 900 can inhibit the proliferation of 26 different tumor cell lines (EC₅₀ values ranging from 0.7 to 5.3 nmol/L), including paclitaxel (Cat. No. 1097)-resistant tumor cell lines. In an HCT116 tumor xenograft model, AMG 900 inhibits the phosphorylation of histone H3 and the growth of human tumors.... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

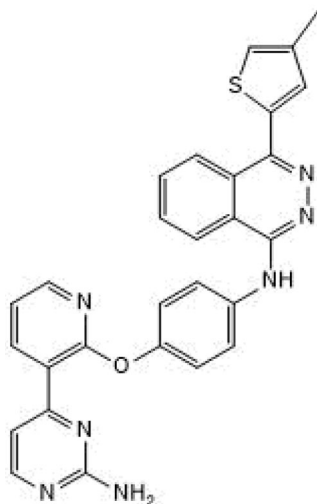
Batch Molecular Formula: C₂₈H₂₁N₇OS.H₂O

Batch Molecular Weight: 521.6

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Payton et al (2010) Preclinical evaluation of AMG 900, a novel potent and highly selective pan-aurora kinase inhibitor with activity in taxane-resistant tumor cell lines. *Cancer Res.* **70** 9846. PMID: 20935223.

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