

Product Name: AMG 18 hydrochloride

Catalog No.: 6166

Batch No.: 3

CAS Number: 2250019-92-0

IUPAC Name: 2-Chloro-*N*-[6-methyl-5-[[3-[2-[(3*S*)-3-piperidinylamino]-4-pyrimidinyl]-2-pyridinyl]oxy]-1-naphthalenyl]benzenesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₂₉ClN₆O₃S.HCl.1/4H₂O

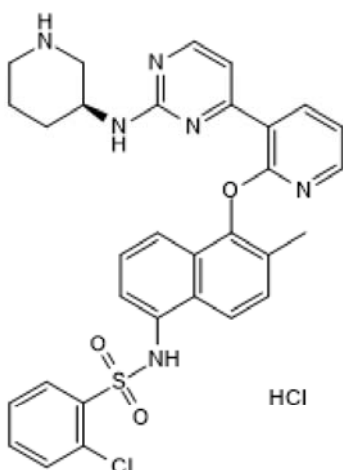
Batch Molecular Weight: 642.08

Physical Appearance: Pale yellow solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

Chiral HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.99	4.79	13.09
Found	57.78	4.97	12.7

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Description:

Potent and selective IRE1 α inhibitor (IC₅₀ values are 13 and 99 nM for recombinant and cellular IRE1 α , respectively). Exhibits selectivity for IRE1 α in a panel of over 100 other kinases.

Physical and Chemical Properties:

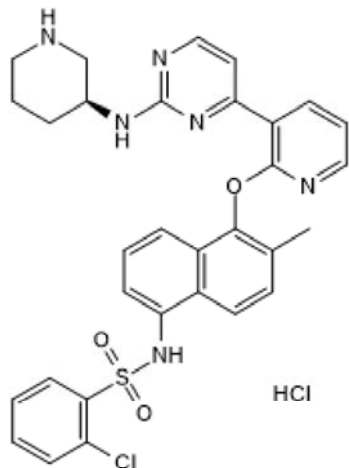
Batch Molecular Formula: C₃₁H₂₉ClN₆O₃S.HCl.½H₂O

Batch Molecular Weight: 642.08

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO 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:

Harrington *et al* (2014) Unfolded protein response in cancer: IRE1 α inhibition by selective kinase ligands does not impair tumor cell viability. *ACS Med.Chem.Lett.* **6** 68. PMID: 25589933.

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