

Product Name: AZD 7762 hydrochloride

Catalog No.: 5199

Batch No.: 1

CAS Number: 1246094-78-9

IUPAC Name: 3-[(Aminocarbonyl)amino]-5-(3-fluorophenyl)-N-(3S)-3-piperidinyl-2-thiophenecarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{19}FN_4O_2S \cdot HCl \cdot 1\frac{3}{4}H_2O$

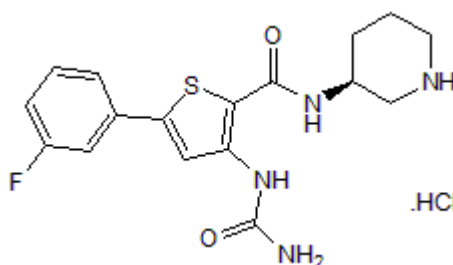
Batch Molecular Weight: 430.4

Physical Appearance: Off White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.44	5.5	13.02
Found	47.51	5.28	13.11

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

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Description:

Potent and selective ATP-competitive inhibitor of Chk1 and Chk2 (IC₅₀ vales are 5 nM for both kinases); displays at least >10 fold selectivity over a panel of 164 kinases. Potentiates cytotoxicity of DNA-damaging agents. Active in vivo.

Physical and Chemical Properties:

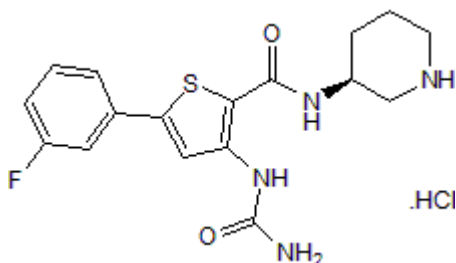
Batch Molecular Formula: C₁₇H₁₉FN₄O₂S.HCl.1¾H₂O

Batch Molecular Weight: 430.4

Physical Appearance: Off White 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:

Zabludoff et al (2008) AZD7762, a novel checkpoint kinase inhibitor, drives checkpoint abrogation and potentiates DNA-targeted therapies. *Mol. Cancer Ther.* **7** 2955. PMID: 18790776.

Morgan et al (2010) Mechanism of radiosensitization by the Chk1/2 inhibitor AZD7762 involves abrogation of the G₂ checkpoint and inhibition of homologous recombinational DNA repair. *Cancer Res.* **70** 4972. PMID: 20501833.

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