

**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-piperidiny-2-thiophenecarboxamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>19</sub>FN<sub>4</sub>O<sub>2</sub>S.HCl.1¼H<sub>2</sub>O

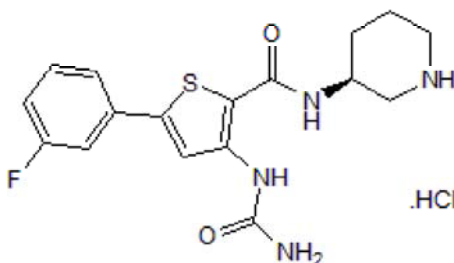
**Batch Molecular Weight:** 430.4

**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 98.7% purity

**<sup>1</sup>H 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 (IC<sub>50</sub> values 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. Also improves efficiency of CRISPR-Cpf1-mediated genome editing in hPSC lines (2.7-fold at 1 μM).

**Physical and Chemical Properties:**

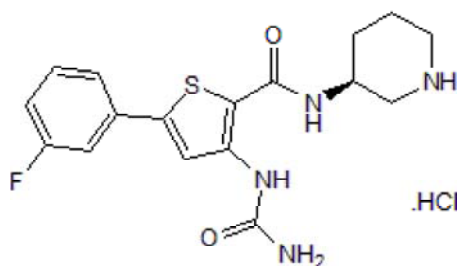
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Batch Molecular Weight: 430.4

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.

**Licensing Information:**

Sold for research purposes under agreement from AstraZeneca

**References:**

**Ma et al** (2018) Small molecules promote CRISPR-Cpf1-mediated genome editing in human pluripotent stem cells. *Nat Commun.* **9** 1303. PMID: 29610531.

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

**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.

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