

**Product Name:** AZ 5704

**Catalog No.:** 6330

**Batch No.:** 1

CAS Number: 1941214-06-7

IUPAC Name: 7-Fluoro-6-[6-(methoxymethyl)-3-pyridinyl]-4-[[[(1S)-1-(1-methyl-1H-pyrazol-3-yl)ethyl]amino]-3-quinolinecarboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>23</sub>FN<sub>6</sub>O<sub>2</sub>·1/4H<sub>2</sub>O

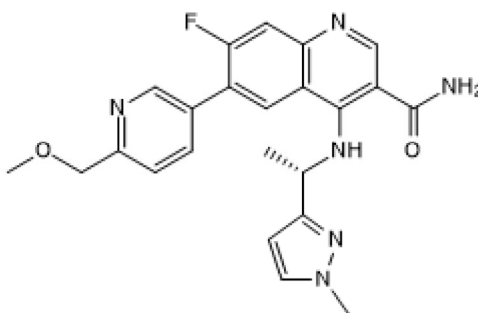
**Batch Molecular Weight:** 438.97

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.27 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 98.7% purity

**Chiral HPLC:** Shows 98.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.93	5.4	19.14
Found	62.85	5.32	19

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**Description:**

AZ 5704 is a potent and selective ATM kinase inhibitor (IC<sub>50</sub> = 0.6 nM in an enzyme inhibition assay). Exhibits > 600-fold selectivity for ATM over other kinases. Inhibits ATM kinase in an in vitro cellular assay (IC<sub>50</sub> = 0.33 μM). Potentiates the antitumor effects of the topoisomerase 1 inhibitor irinotecan (CPT 11, Cat. No. 2688) in tumor bearing, immunocompromised mice. Orally bioavailable.

**Physical and Chemical Properties:**

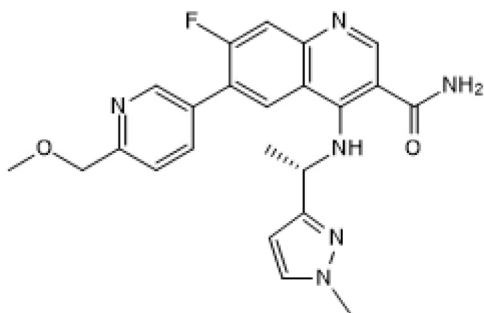
Batch Molecular Formula: C<sub>23</sub>H<sub>23</sub>FN<sub>6</sub>O<sub>2</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 438.97

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Degorce et al** (2016) Discovery of novel 3-quinoline carboxamides as potent, selective and orally bioavailable inhibitors of ataxia telangiectasia mutated (ATM) kinase. *J.Med.Chem.* **59** 6281. PMID: 27259031.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

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. \*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.

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