

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: C₂₃H₂₃FN₆O₂·¼H₂O

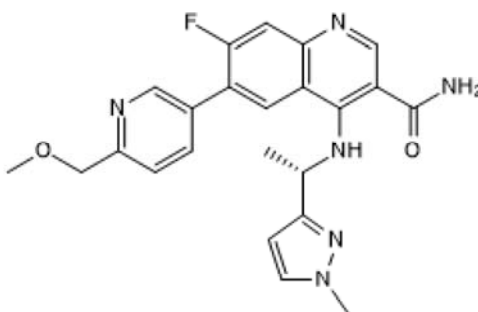
Batch Molecular Weight: 438.97

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.5% purity

Chiral HPLC: Shows 98.4% purity

¹H 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:

Potent and selective ATM kinase inhibitor (IC_{50} = 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_{50} = 0.33 μ M). 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:

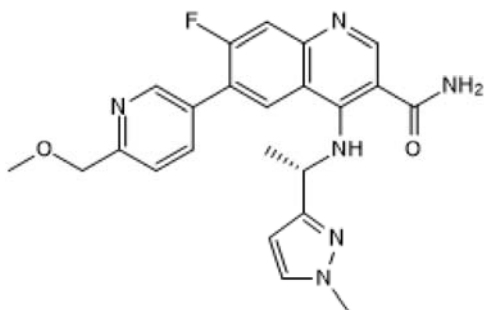
Batch Molecular Formula: $C_{23}H_{23}FN_6O_2 \cdot \frac{1}{4}H_2O$

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. 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.

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