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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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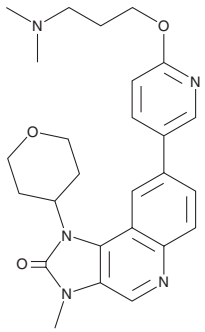
PRODUCT INFORMATION

AZD 0156

Item No. 25648

CAS Registry No.:	1821428-35-6
Formal Name:	8-[6-[3-(dimethylamino)propoxy]-3-pyridinyl]-1,3-dihydro-3-methyl-1-(tetrahydro-2H-pyran-4-yl)-2H-imidazo[4,5-c]quinolin-2-one
MF:	$C_{26}H_{31}N_5O_3$
FW:	461.6
Purity:	≥95%
UV/Vis.:	λ_{max}: 210, 273 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZD 0156 is supplied as a crystalline solid. A stock solution may be made by dissolving the AZD 0156 in the solvent of choice. AZD 0156 is soluble in the organic solvent DMSO, which should be purged with an inert gas.

Description

AZD 0156 is an inhibitor of the ataxia-telangiectasia mutated (ATM) kinase (IC_{50}s = 0.04 and 0.57 nM in enzyme and cell-based assays, respectively).[1] It is selective for ATM over other PI3K-related kinase (PIKK) family kinases including DNA-PK, mTOR, PI3Kα, PI3Kβ, PI3Kγ, and PI3Kδ (IC_{50}s = 0.14, 0.20, 0.32, 1.8, 1.1, and 0.27 µM, respectively, in enzyme assays). AZD 0156 (20 mg/kg) enhances the antitumor activity of irinotecan (Item No. 14180) in an SW620 colon cancer mouse xenograft model and olaparib (Item No. 10621) in an HBCx-10 breast cancer patient-derived xenograft (PDX) mouse model when administered at a dose of 5 mg/kg, leading to tumor regression in both models.

Reference

1. Pike, K.G., Barlaam, B., Cadogan, E., *et al.* The identification of potent, selective, and orally available inhibitors of ataxia telangiectasia mutated (ATM) kinase: The discovery of AZD0156 (8-{6-[3-(dimethylamino) propoxy]pyridin-3-yl}-3-methyl-1-(tetrahydro-2 H-pyran-4-yl)-1,3-dihydro-2 H-imidazo[4,5-c]quinolin-2-one). *J. Med. Chem.* **61(9)**, 3823-3841 (2018).

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