
Product Data Sheet

Product Name: AZ 5704
Cat. No.: GC50424

Chemical Properties

Cas. No. 1941214-06-7

SMILES COCC1=NC=C(C2=CC3=C(N=CC(C(N)=O)=C3N[C@H](C4=NN(C=C4)C)C)C=C2F)C=C1

Formula C₂₃H₂₃FN₆O₂ M.Wt 434.47

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Potent and selective ATM kinase inhibitor (IC₅₀ = 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 (IC₅₀ = 0.33 μM). Potentiates the antitumor effects of the topoisomerase 1 inhibitor irinotecan in tumor bearing, immunocompromised mice. Orally bioavailable.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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