
Product Data Sheet

Product Name: AZD 7762 hydrochloride

Cat. No.: GC50119

Chemical Properties

Cas. No. 1246094-78-9

SMILES FC1=CC=CC(C2=CC(NC(N)=O)=C(C(N[C@@H]3CNCCC3)=O)S2)=C1.Cl

Formula $C_{17}H_{19}FN_4O_2S.HCl$ M.Wt 398.88

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 ATP-competitive inhibitor of Chk1 and Chk2 (IC50 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).

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 |Morgan et al (2010) Mechanism of radiosensitization by the Chk1/2 inhibitor AZD7762 involves abrogation of the G2 checkpoint and inhibition of homologous recombinational DNA repair. Cancer Res. 70 4972 PMID:20501833 |Ma et al (2018) Small molecules promote CRISPR-Cpf1-mediated genome editing in human pluripotent stem cells. Nat Commun. 9 1303 PMID:29610531

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA