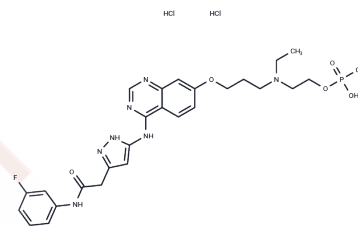


AZD 1152 (hydrochloride)

Chemical Properties

CAS No. : 722543-50-2
 Formula: C₂₆H₃₃Cl₂FN₇O₆P
 Molecular Weight: 660.47
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	AZD 1152 is an orally bioavailable prodrug of AZD 1152-HQPA, a selective inhibitor of Aurora kinase B (IC ₅₀ = 0.36 nM). ¹ AZD 1152 is converted to AZD 1152-HQPA in plasma. Inhibition of Aurora B results in disruption of spindle checkpoint functions and chromosome alignment, resulting in inhibition of cytokinesis followed by apoptosis. ^{2,3} AZD 1152 inhibits tumor xenograft growth in vivo. ^{4,5}
Targets(IC ₅₀)	Apoptosis,Others,Aurora Kinase

Solubility Information

Solubility	DMSO:PBS(pH 7.2) (1:4): 0.2 mg/mL (0.3 mM),Sonication is recommended. DMSO: 1 mg/mL (1.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5141 mL	7.5704 mL	15.1407 mL
5 mM	0.3028 mL	1.5141 mL	3.0281 mL
10 mM	0.1514 mL	0.757 mL	1.5141 mL
50 mM	0.0303 mL	0.1514 mL	0.3028 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mortlock, A.A., Foote, K.M., Heron, N.M., et al. Discovery, synthesis, and in vivo activity of a new class of pyrazoloquinazolines as selective inhibitors of aurora B kinase. *J. Med. Chem.* 50(9)2213-2224(2007)

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Moore, A.S., Blagg, J., Linardopoulos, S., et al. Aurora kinase inhibitors: Novel small molecules with promising activity in acute myeloid and Philadelphia-positive leukemias. *Leukemia* 24(4)671-678(2010)

Wilkinson, R.W., Odedra, R., Heaton, S.P., et al. AZD1152, a selective inhibitor of Aurora B kinase, inhibits human tumor xenograft growth by inducing apoptosis. *Clin. Cancer Res* 13(12)3682-3688(2007)

Yang, J., Ikezoe, T., Nishioka, C., et al. AZD1152, a novel and selective aurora B kinase inhibitor, induces growth arrest, apoptosis, and sensitization for tubulin depolymerizing agent or topoisomerase II inhibitor in human acute leukemia cells in vitro and in vivo. *Blood* 110(6)2034-2040(2007)

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