

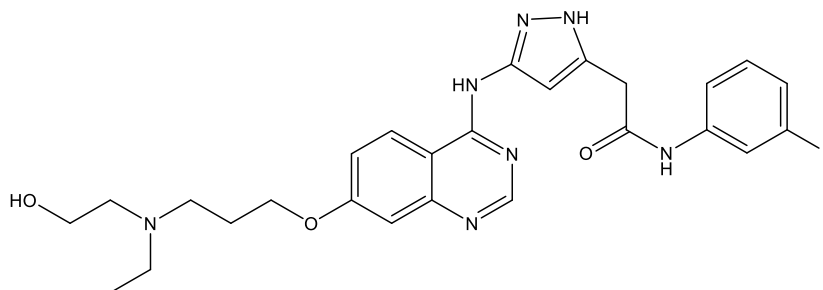
Catalog # 10-4804

AZD1152-HQPA

CAS# 722544-51-6

3-[[7-[3-[Ethyl(2-hydroxyethyl)amino]propoxy]-4-quinazoliny]amino-N-(3-fluorophenyl)-1H-pyrazole-5-acetamide;
Barasertib-HQPA; AZD2811

Lot # FBS2016



AZD1152-HQPA is a potent and highly selective inhibitor of Aurora B.¹ Aurora B $K_i = 0.36$ nM; Aurora A $K_i = 1,369$ nM.² It inhibits the growth of tumors in multiple cancer models.³⁻⁶ Excessive ROS generation⁷ and upregulated tumor suppressor miRNAs⁸ have been proposed as a novel mechanisms of cytotoxicity of AZD1152-HQPA.

- 1) Mortlock *et al.* (2007) *Discovery, Synthesis, and in Vivo Activity of a New Class of Pyrazoloquinazolines as Selective Inhibitors of Aurora B Kinase*; J. Med. Chem. **50** 2213
- 2) Wilkinson *et al.* (2007) *AZD1152, a Selective Inhibitor of Aurora B Kinase, Inhibits Human Tumor Xenograft Growth by Inducing Apoptosis*; Clin. Cancer Res. **13** 3682
- 3) Oke *et al.* (2009) *AZD1152 rapidly and negatively affects the growth and survival of human acute myeloid leukemia cells in vitro and in vivo*; Cancer Res. **69** 4150
- 4) Aihara *et al.* (2010) *The selective Aurora B kinase inhibitor AZD1152 as a novel treatment for hepatocellular carcinoma*; J. Hepatol. **52** 63
- 5) Mori *et al.* (2011) *Effects of AZD1152, a selective Aurora B kinase inhibitor of Burkitt's and Hodgkin's lymphomas*; Biochem. Pharmacol. **82** 1252
- 6) Helfrich *et al.* (2016) *Barasertib (AZD1152), a Small Molecule Aurora B Inhibitor, Inhibits the Growth of SCLC Cell Lines In Vitro and In Vivo*; Mol. Cancer Ther. **15** 2314
- 7) Zekri *et al.* (2017) *Reactive oxygen species generation and increase in mitochondrial copy number: new insight into the potential mechanism of cytotoxicity induced by aurora kinase inhibitor, AZD1152-HQPA*; Anticancer Drugs **28** 841
- 8) Zekri *et al.* (2018) *The Potential Contribution of microRNAs in Anti-cancer Effects of Aurora Kinase Inhibitor (AZD1152-HQPA)*; J. Mol. Neurosci. **65** 444

PHYSICAL DATA

Molecular Weight:	507.56
Molecular Formula:	C ₂₆ H ₃₀ N ₇ O ₃
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (15 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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