AZD1152-HQPA is a potent and highly selective inhibitor of Aurora B.\textsuperscript{1} Aurora B $K_i = 0.36$ nM; Aurora A $K_i = 1,369$ nM.\textsuperscript{2} It inhibits the growth of tumors in multiple cancer models.\textsuperscript{3-6} Excessive ROS generation\textsuperscript{7} and upregulated tumor suppressor miRNAs\textsuperscript{8} 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
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

**PHYSICAL DATA**

Molecular Weight: 507.56
Molecular Formula: C\textsubscript{26}H\textsubscript{30}FN\textsubscript{7}O\textsubscript{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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com