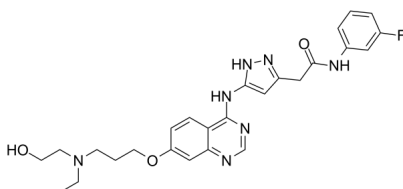


Certificate of Analysis

Catalog Number	BP22560
Product Name	Barasertib-HQPA

Physical and Chemical Properties

CAS No.	722544-51-6
Chemical Formula	C ₂₆ H ₃₀ FN ₇ O ₃
Molecular Weight	507.56
Solubility	DMSO: ≥ 22 mg/mL (43.34 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	<p>Barasertib-HQPA (AZD2811) is a highly selective Aurora B inhibitor with an IC₅₀ of 0.37 nM in a cell-free assay. Barasertib-HQPA (AZD2811) induces growth arrest and apoptosis in cancer cells.</p>
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Targets&IC50	Aurora B: 0.37 nM (IC50);
In vitro	Barasertib-HQPA (3 μ M, 3 hours) significantly decreases expression of the phosphorylated forms of histone H3 in freshly isolated leukemia cells. Barasertib-hydroxyquinazoline pyrazol anilide (HQPA)] is converted rapidly to the active Barasertib-HQPA in plasma. Barasertib-HQPA treatment induced defective cell survival, polyploidy, and cell death in LNCaP cell line. Barasertib-HQPA induces a marked anti-proliferative effect accompanied by the appearance of a polyploid population, which in most cases led to apoptosis.
In vivo	Barasertib (AZD1152, 25 mg/kg) markedly suppresses the growth and weights of AZD1152-treated tumors. Barasertib (AZD1152, 5 mg/kg) enhances the ability of vincristine or daunorubicin to inhibit the proliferation of human MOLM13 leukemic xenografts. Barasertib (AZD1152, (10-150 mg/kg/d) potently inhibited the growth of human colon, lung, and hematologic tumor xenografts (mean tumor growth inhibition range, 55% to \geq 100%; P < 0.05) in immunodeficient mice.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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