

Product Name: Barasertib (AZD1152-HQPA) Revision Date: 01/10/2021

Product Data Sheet

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Barasertib (AZD1152-HQPA)

Cat. No.:	A4112
CAS No.:	722544-51-6
Formula:	C26H30FN7O3
M.Wt:	507.56
Synonyms:	AZD1152-HQPA,AZD-1152HQPA, AZD11
	HPQA,INH 34
Target:	Chromatin/Epigenetics
Pathway:	Aurora Kinase
Storage:	Store at -20°C
	and the

Solvent & Solubility

	≥25.4 mg/mL in DM	\geq 25.4 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O				
In Vitro	Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg	
	Slock Solutions	1 mM	1.9702 mL	9.8511 mL	19.7021 mL	
	Buston	5 mM	0.3940 mL	1.9702 mL	3.9404 mL	
		10 mM	0.1970 mL	0.9851 mL	1.9702 mL	

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Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Aurora Kinase B inhibitor,	Aurora Kinase B inhibitor, Potent and selective			
IC ₅₀ & Target	0.37 nM (Aurora B)				
	Cell Viability Assay	and the second s			
	Cell Line:	HL-60 cells			
In Vitro	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining			
		a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or			
		shake it in the ultrasonic bath for a while.Stock solution can be stored below			
		-20°C for several months.			

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	Reacting conditions:	25 nM, 72 hours	
	Applications:	The cells exhibited increased DNA contents of 4N and 8N, indicative of	
		polyploidy, within 24-48 h of treatment. After 48-72 h, barasertib-HQPA	
		induced apoptotic cell death, as detected by an increased sub-G1 population	
	Concourt	compared for that of untreated cells. The induction of polyploidy was obvious at	
	O En Enore tre	24–48 h, and thereafter, the nuclei showed morphology typical of apoptosis,	
		such as nuclear fragmentation and condensation. These observations were in	
		accordance with the findings of the flow cytometric analysis.	
In Vivo	Animal experiment		
	Animal models:	Female nude mice injected with SW620, Colo205 or HCT116 cells	
	Dosage form:	Subcutaneous injection, 150 mg/kg/day, minipump infusion over 48 h	
	Applications:	In SW620, HCT116 and Colo205 xenografts significant tumor growth	
		inhibitions of 79% (P	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may	
	a ne une one	slightly differ with the theoretical value. This is caused by an experimental	
	Restor	system error and it is normal.	
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Product Citations

1.Christine M Field, James F Pelletier, et al. "Disassembly of actin and keratin networks by Aurora B kinase at the midplane of cleaving Xenopus laevis eggs." bioRxiv. 2019 January 06.

2.Shodai Tanaka, Kaori Senda-Murata, et al. "Live cell imaging of anaphase bridge formation and the subsequent cleavage furrow regression induced by the Aurora B kinase inhibitor AZD1152-HQPA." Bioimages.2017.10.05.

3.Hanley ML, Yoo TY, et al. "Chromosomalpassenger complex hydrodynamics suggests chaperoning of the inactive state bynucleoplasmin/nucleophosmin." Mol Biol Cell. 2017 Apr 12. pii: mbc.E16-12-0860.PMID:28404751

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References

[1] Yamauchi T, Uzui K, Shigemi H, et al. Aurora B inhibitor barasertib and cytarabine exert a greater-than-additive cytotoxicity in acute myeloid leukemia cells. Cancer science, 2013, 104(7): 926-933.

[2] Alferez D G, Goodlad R A, Odedra R, et al. Inhibition of Aurora-B kinase activity confers antitumor efficacy in preclinical mouse models of early and advanced gastrointestinal neoplasia. International journal of oncology, 2012, 41(4): 1475-1485.



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NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage

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temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.





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