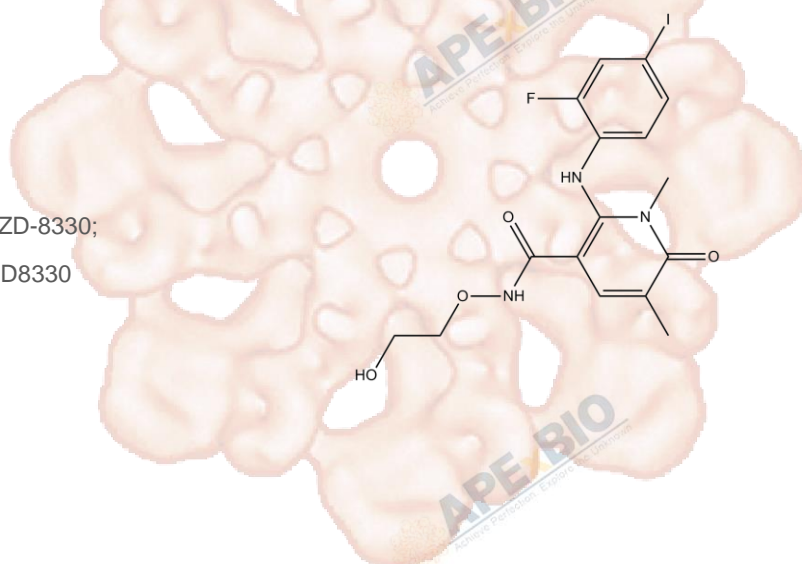


Product Data Sheet

AZD8330

Cat. No.:	A8374
CAS No.:	869357-68-6
Formula:	C ₁₆ H ₁₇ FIN ₃ O ₄
M.Wt:	461.23
Synonyms:	ARRY-424704; ARRY-704; AZD-8330; ARRY424704; ARRY704; AZD8330
Target:	MAPK Signaling
Pathway:	MEK1/2
Storage:	Store at -20°C



Solvent & Solubility

≥23.05 mg/mL in DMSO; insoluble in H₂O; ≥46.1 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.1681 mL	10.8406 mL	21.6812 mL
	5 mM		0.4336 mL	2.1681 mL	4.3362 mL
	10 mM		0.2168 mL	1.0841 mL	2.1681 mL

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

Biological Activity

Shortsummary

MEK 1/2 inhibitor

IC₅₀ & Target

0.4 nM (ERK phosphorylation), 7 nM (MEK1/2)

Cell Viability Assay

In Vitro

Cell Line:	MOS, U2OS, KPD, ZK58, 143b and Saos-2 cells
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.

	Reacting conditions:	0 ~ 1 μ M; 72 hrs
	Applications:	AZD8330 decreased viability of MOS and U2OS cells, and significantly affected 143b cells. In contrast, AZD8330 exhibited no effect on viability of KPD, ZK58 and Saos-2 cells. According to a capase3/7 activity assay, AZD8330 at the concentration of 0.5 μ M induced apoptosis in MOS and U2OS cells, but not in KPD and ZK58 cells.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. White SM, Avantaggiati ML, et al. "YAP/TAZ Inhibition Induces Metabolic and Signaling Rewiring Resulting in Targetable Vulnerabilities in NF2-Deficient Tumor Cells." Dev Cell. 2019 May 6;49(3):425-443.e9.PMID:31063758

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References

[1]. Zuzanna Baranski, Tijmen H. Booij, Marieke L. Kuijjer, Yvonne de Jong, Anne-Marie Cleton-Jansen, Leo S. Price, Bob van de Water, Judith V. M. G. Bovée, Pancras C.W. Hogendoorn, Erik H.J. Danen. MEK inhibition induces apoptosis in osteosarcoma cells with constitutive ERK1/2 phosphorylation. Genes Cancer. 2015 Nov; 6(11-12): 503–512.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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