

Product Name: AZD6244 (Selumetinib) Revision Date: 01/10/2021

Product Data Sheet

AZD6244 (Selumetinib)

Cat. No.: A8207

606143-52-6 CAS No.:

Formula: C17H15BrCIFN4O3

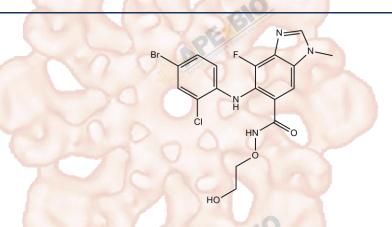
M.Wt: 457.69

Synonyms:

Target: MAPK Signaling

Pathway: MEK1/2

Storage: Store at -20°C



Solvent & Solubility

≥22.88 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.1849 mL	10.9244 mL	21.8488 mL
	5 mM	0.4370 mL	2.1849 mL	4.3698 mL
	10 mM	0.2185 mL	1.0924 mL	2.1849 mL

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

Biological Activity

Shortsummary	MEK inhibitor	
IC ₅₀ & Target	14 nM (MEK1)	
	Cell Viability Assay	
In Vitro	Cell Line:	1205Lu cells (BRAFV600E)
	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:	3 μM, 24 hours
		4 Lynny on out to com

	Applications:	Inhibition of cell growth by AZD6244 is caused by reversible G1 -phase cell		
		cycle arrest. Adherent 1205Lu cells were treated with DMSO or 3 μM AZD6244		
		for 24 h or for 24 h and a further 24 h after removal of the drugs. Cells treated		
		with AZD6244 were found to enter into the G1 -phase cell cycle arrest, but to		
		reenter S phase after removal of the drug.		
	Animal experiment			
In Vivo	Animal models:	Nude mice implanted with HT-29 human colon carcinoma		
	Dosage form:	Oral administration, 10, 25, 50, or 100 mg/kg, twice a day for 21 days		
	Applications:	AZD6244 is effective in inhibiting tumor growth at all doses tested. The time to		
		the tumor growth end point was 36 days for the two highest dose groups		
		compared with 18 days for the vehicle control group. Tumor growth after 11		
		days of dosing was inhibited by 55% at the low dose of 10 mg/kg and by 70% at		
		the high dose of 100 mg/kg. Recovery of tumor growth was observed after		
		cessation of AZD6244 administration. Tumor regrowth was significantly		
	810	delayed in the 100 mg/kg dose group.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	A CONTRACTOR OF THE PROPERTY O	slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

Product Citations

- 1. Bunda S, Heir P, et al. "CIC protein instability contributes totumorigenesis in glioblastoma." Nat Commun. 2019 Feb 8;10(1):661.PMID:30737375
- 2. Khan IA, Yoo BH, et al. "Mek activity is required for ErbB2 expression in breast cancer cells detached from the extracellular matrix." Oncotarget. 2017 Oct 31;8(62):105383-105396.PMID:29285258
- 3. Sieber J, Wieder N, et al. "GDC-0879, a BRAF(V600E) Inhibitor, Protects Kidney Podocytes fromDeath." Cell Chem Biol. 2017 Dec 6.PMID:29249695

See more customer validations on www.apexbt.com.

References

[1] Haass N K, Sproesser K, Nguyen T K, et al. The mitogen-activated protein/extracellular signal-regulated kinase kinase inhibitor AZD6244 (ARRY-142886) induces growth arrest in melanoma cells and tumor regression when combined with docetaxel. Clinical Cancer Research, 2008, 14(1): 230-239.

[2] Yeh T C, Marsh V, Bernat B A, et al. Biological characterization of ARRY-142886 (AZD6244), a potent, highly selective mitogen-activated protein kinase kinase 1/2 inhibitor. Clinical Cancer Research, 2007, 13(5): 1576-1583.

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 APExBIO 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.



www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054. Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com









