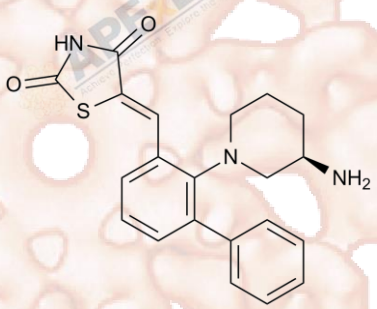
Product Data Sheet

AZD1208



Cat. No.:	A3962
CAS No.:	1204144-28-4
Formula:	C21H21N3O2S
M.Wt:	379.48
Synonyms:	AZD 1208;AZD-1208
Target:	Chromatin/Epigenetics
Pathway:	Pim
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

insoluble in EtOH; insoluble in H2O; ⩾18.95 mg/mL in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.6352 mL	13.1759 mL	26.3518 mL
5 mM	0.5270 mL	2.6352 mL	5.2704 mL
10 mM	0.2635 mL	1.3176 mL	2.6352 mL

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

Biological Activity

Shortsummary	PIM kinase inhibitor
IC_{50} & Target	0.4 nM (Pim1), 1.9 nM (Pim2), 5 nM (Pim3)

In Vitro

Cell Viability Assay

Cell Line:	OCI-M1 and EOL-1 cell lines
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:	9 h, 1 μM

	Applications:	AZD1208 is a highly selective, potent and orally available Pim kinase inhibitor that effectively inhibits Pim-1, Pim-2 and Pim-3 with Ki values of 0.1 nM, 1.92 nM and 0.4 nM, respectively. AZD1208 inhibits AML cells growth and induce apoptosis and cell-cycle arrest.
In Vivo	**Animal experiment**	
	Animal models:	SCID mice
	Dosage form:	Oral administration, 30-45mg/kg
	Applications:	AZD1208 inhibited tumorigenesis in c-MYC/Pim1-prostate tissue recombinant grafts. Myc-CaP allografts, and human PC xenograft models. Inhibition of PIM by AZD1208 reduced c-MYC/Pim1 graft growth, decreased cellular proliferation, and increased apoptosis. Besides, AZD1208 also suppressed multiple protumorigenic pathways, including the MYC pathway and the p53 pathway.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Keeton E K, McEachern K, Dillman K S, et al. AZD1208, a potent and selective pan-Pim kinase inhibitor, demonstrates efficacy in preclinical models of acute myeloid leukemia[J]. Blood, 2014, 123(6): 905-913.

[2]. Kirschner A N, Wang J, van der Meer R, et al. PIM kinase inhibitor AZD1208 for treatment of MYC-driven prostate cancer[J]. Journal of the National Cancer Institute, 2014, 107(2).

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.

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