

Product Name: AZD6482 Revision Date: 01/10/2021 Product Data Sheet

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AZD6482

Cat. No.:	A5478
CAS No.:	1173900-33-8
Formula:	C22H24N4O4
M.Wt:	408.45
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	PI3K
Storage:	Store at -20°C
	<u>810</u>

Solvent & Solubility

	insoluble in H2O; \geq	insoluble in H2O; \geq 20.4 mg/mL in DMSO; \geq 6.36 mg/mL in EtOH			
Preparin In Vitro Stock So	Preparing	Mass Solvent Concentration	1mg	5mg	10mg
	STOCK SOLUTIONS	1 mM	2.4483 mL	12.2414 mL	24.4828 mL
	PEBIO	5 mM	0.4897 mL	2.4483 mL	4.8966 mL
		10 mM	0.2448 mL	1.2241 mL	2.4483 mL

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

Biological Activity

Shortsummary	PI3Kβ inhib
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IC₅₀ & Target

In Vitro

PI3Kβ inhibitor,potent and selective

10 nM (PI3Kβ), 80 nM (PI3Kδ), 420 nM (DNA-PK), 870 nM (PI3Kα), 1090 nM (PI3Kγ)

Cell Viability Assay	Part of the second s
Cell Line:	Primary human insulin sensitive adipocytes
Preparation method:	The solubility of this compound in DMSO is >20.4mg/mL. 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:	0.4-1 μM

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	Applications:	AZD6482 is a novel isoform-selective inhibitor of $\mbox{PI3K}\beta$ (phosphoinositide
		3-kinase) that blocks the interaction of the enzyme with ATP. AZD6482
		concentration-dependently inhibited insulin-induced glucose uptake by human
		adipocytes. Taken together, AZD6482 inhibited platelet aggregation induced by
		low agonist concentrations.
Animal experiment		610
	Animal models:	Folts dog model
	Dosage form:	intravenously (i.v.) over 30-min periods (bolus 0.03–1.3 μg kg-1) and (infusion
		0.005–0.24 μg kg min-1)
	Applications:	In vivo in dog, AZD6482 induced a concentration-dependent anti-thrombotic
		effect in vivo in the dog [abolition of the CFRs(cyclic flow reductions)].
In Vivo		AZD6482 left the shear induced primary platelet aggregation intact but inhibits
		secondary platelet aggregation, produced a complete antithrombotic effect
		without significantly compromising hemostasis as no increase in bleeding time
	a10	or blood loss was seen at plasma exposure that achieved a full anti-thrombotic
	OE	effect.
	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]. Nylander S, Kull B, Bjrkman JA ., et al.Human target validation of phosphoinositide 3-kinase (PI3K)β: effects on platelets and insulin sensitivity, using AZD6482 a novel PI3Kβ inhibitor. J Thromb Haemost. 2012 Oct;10(10):2127-36.

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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 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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