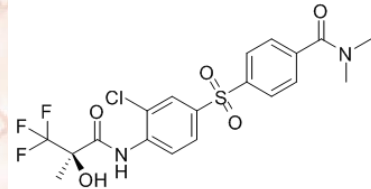


Product Data Sheet

AZD7545

Cat. No.:	B1286
CAS No.:	252017-04-2
Formula:	C19H18ClF3N2O5S
M.Wt:	478.87
Synonyms:	
Target:	Others
Pathway:	PDHK
Storage:	Store at -20°C



Solvent & Solubility

≥21.85 mg/mL in DMSO; insoluble in H₂O; ≥15.63 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.0882 mL	10.4412 mL	20.8825 mL
	5 mM	0.4176 mL	2.0882 mL	4.1765 mL
	10 mM	0.2088 mL	1.0441 mL	2.0882 mL

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

Biological Activity

Shortsummary	PDHK inhibitor,potent and selective	
IC ₅₀ & Target	6.4 nM (PDHK2), 36.8 nM (PDHK1)	
In Vitro	Cell Viability Assay	
	Preparation method:	
In Vivo	Animal experiment	
	Animal models:	Wistar rats model; obese Zucker (fa/fa) rats model
	Dosage form:	3, 10, and 30 mg/kg twice daily; oral administration for 7 days
	Applications:	AZD7545 more effectively increased PDH activity in liver than in skeletal

muscle and heart in wistar rats model. Moreover, AZD7545 significantly elevated pyruvate dehydrogenase (PDH) activity in vivo and markedly improved blood glucose control in obese (fa/fa) Zucker rats.

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. Morrell, J. A., Orme, J., Butlin, R. J., Roche, T. E., Mayers, R. M. and Kilgour, E. (2003) AZD7545 is a selective inhibitor of pyruvate dehydrogenase kinase 2. *Biochem Soc Trans.* 31, 1168-1170
2. Mayers, R. M., Butlin, R. J., Kilgour, E., Leighton, B., Martin, D., Myatt, J., Orme, J. P. and Holloway, B. R. (2003) AZD7545, a novel inhibitor of pyruvate dehydrogenase kinase 2 (PDHK2), activates pyruvate dehydrogenase in vivo and improves blood glucose control in obese (fa/fa) Zucker rats. *Biochem Soc Trans.* 31, 1165-1167

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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