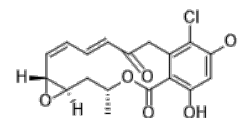


Product Name : AZD7545
Cat. No. : PC-23744
CAS No. : 252017-04-2
Molecular Formula : C₁₉H₁₈ClF₃N₂O₅S
Molecular Weight : 478.87
Target : Pyruvate Dehydrogenase Kinase (PDK)
Solubility : 10 mM in DMSO



Biological Activity

AZD7545 is a potent, selective inhibitor of pyruvate dehydrogenase kinase (PDHK, PDK) with IC₅₀ of 36.8 nM and 6.4 nM for PDHK1 and PDHK2 respectively.

AZD7545 increases PDH activity with EC₅₀ of 5.2 nM, stimulates the rate of pyruvate oxidation 2-fold (EC₅₀=105 nM) in rat hepatocytes.

AZD7545 inhibits PDHK activity of recombinant PDHK and intracellular PDH phosphorylation.

References

Mayers RM, et al. *Biochem Soc Trans.* 2003 Dec;31(Pt 6):1165-7.

Morrell JA, et al. *Biochem Soc Trans.* 2003 Dec;31(Pt 6):1168-70.

Makita N, et al. *J Pharm Pharmacol.* 2017 Jan;69(1):43-51.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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