

Product Name : AZD-3965

Synonyms : AZD3965; AZD-3965; AZD 3965

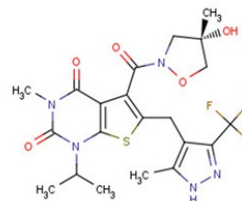
Cat No. : M17303

CAS Number : 1448671-31-5

Molecular Formula : C₂₁H₂₄F₃N₅O₅S

Formula Weight : 515.51

Chemical Name : (S)-5-(4-hydroxy-4-methylisoxazolidine-2-carbonyl)-1-isopropyl-3-methyl-6-((3-methyl-5-(trifluoromethyl)-1H-pyrazol-4-yl)methyl)thieno[2,3-d]pyrimidine-2,4(1H,3H)-dione



Description : AZD3965 is a selective inhibitor of monocarboxylate transporter 1 (MCT1) with a binding affinity of 1.6 nM, is 6 fold selective over MCT2 and does not inhibit MCT4 at 10 µM. In vivo, AZD3965 is well tolerated and induces a dose and time dependent accumulation of lactate in the tumours, suppresses tumour growth and in the Raji model potentiates the effects of Rituxan, doxorubicin and bendamustine. The selective inhibition of lactate transport by the MCT1 inhibitor AZD3965 offers an novel mechanism for targeting the metabolic phenotype in tumours that preferentially express MCT1.

Pathway : Tyrosine Kinase

Target : TAM Receptor

Receptor : MCT1

Solubility : DMSO : ≥ 36 mg/mL. 69.83 mM

SMILES : O=C1N(C(C)C)c2c(c(C(=O)N3C[C@@](CO3)(O)C)c(Cc3c(C(F)(F)F)[nH]nc3C)s2)c(=O)n1C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Bola BM, et al. Mol Y Ther. 2014 Dec;13(12):2805-16.