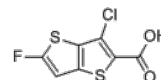


Product Name : PF-07208254
Cat. No. : PC-21021
CAS No. : 2573122-40-2
Molecular Formula : C₇H₂ClFO₂S₂
Molecular Weight : 236.66
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2573122-40-2

Biological Activity

PF-07208254 (PF 07208254) is a potent, allosteric **branched-chain ketoacid dehydrogenase kinase (BDK, BCKDK)** inhibitor with in vitro IC₅₀ of 110 nM and K_i of 54 nM.

PF-07208254 exhibits potent inhibitory potency in human skeletal myocytes using an AlphaLISA SureFire Ultra detection system to monitor BCKDH phosphorylation (cellular IC₅₀ = 540 nM).

PF-07208254 exhibits K_d value of 84 nM in surface plasmon resonance (SPR)-based binding assays.

PF-07208254 demonstrates superior potency relative to BT2 (Cat. PC-49378, IC₅₀=1100 nM in vitro).

PF-07208254 (90 mg/kg) improves cardiac function and metabolism, reduces pBCKDH in mice.

PF-07208254 reduces pBCKDH and promotes BDK protein levels in human cells and in mice.

References

Rachel J Roth Flach, et al. *Nat Commun.* 2023 Aug 9;14(1):4812.

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

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