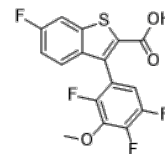


Product Name : PF-07328948
Cat. No. : PC-23451
CAS No. : 2936625-34-0
Molecular Formula : C₁₆H₈F₄O₃S
Molecular Weight : 356.29
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2936625-34-0

Biological Activity

PF-07328948 is the first potent, selective branched-chain ketoacid dehydrogenase kinase (**BDK** or **BCKDK**) with in vitro IC₅₀ of 15 nM, and cellular IC₅₀ of 46 nM in human skeletal muscle BDK activity assay.

PF-07328948 is not only a BDK inhibitor but also BDK degrader.

PF-07328948 shows a high degree of selectivity over a number of enzymes, receptors, and ion channels, as well as excellent kinase selectivity.

PF-07328948 binds to the BDK allosteric pocket and does not contain a traditional ATP-binding site motif.

PF-07328948 binds to BDK with SPR K_d of 4.8 nM.

PF-07328948 also destabilizes the interaction between BDK and E2.

PF-07328948 also shows high species potency against mouse BDK IC₅₀ = 41 nM, rat BDK IC₅₀ = 24 nM, and dog BDK IC₅₀ = 24 nM. Lowered plasma biomarkers, including BCAAs and branched-chain ketoacids (BCKAs) in vivo with enhanced pharmacodynamic effect upon chronic dosing due to BDK degradation.

References

Filipski KJ, et al. *J Med Chem*. 2024 Nov 19. doi: 10.1021/acs.jmedchem.4c02230.

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

E-mail: tech@probechem.com