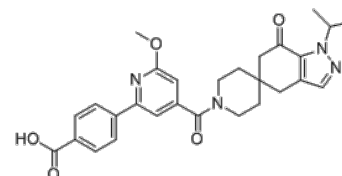


Product Name : PF-05221304
Cat. No. : PC-72388
CAS No. : 1370448-25-1
Molecular Formula : C₂₈H₃₀N₄O₅
Molecular Weight : 502.571
Target : Acetyl-CoA Carboxylase (ACC)
Solubility : 10 mM in DMSO



Biological Activity

PF-05221304 (Clesacostat) is a novel potent, selective, liver-targeted dual **acetyl-CoA carboxylase (ACC1/2)** inhibitor with IC₅₀ of 13/9 nM (hACC1/2).

PF-05221304 displays no inhibition against a panel of e 5'-diphospho-glucuronosyltransferase (UGT) enzymes at 20 uM, as well as a broad panel of transporters, receptors, ion channels and enzymes, including the hERG channel.

PF-05221304 dose-dependently causes reductions in liver de novo lipogenesis (DNL) with a maximal reduction of 82% (EC₅₀=5.4 nM) at 300 mg/kg (p.o.), weak DNL inhibition in lung and bone marrow.

References

Huard K, et al. *J Med Chem.* 2020 Oct 8;63(19):10879-10896.

Calle RA, et al. *Nat Med.* 2021 Oct;27(10):1836-1848.

Ross TT, et al. *Cell Mol Gastroenterol Hepatol.* 2020;10(4):829-851.

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

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