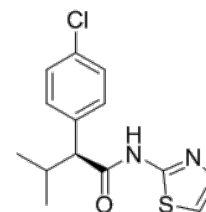


Product Name : (S)-4CMTB
Cat. No. : PC-35696
CAS No. : 1103523-24-5
Molecular Formula : C₁₄H₁₅ClN₂OS
Molecular Weight : 294.797
Target : Free Fatty Acid Receptor (FFAR)
Solubility : 10 mM in DMSO



1. Taeweon Lee, et al. *Mol Pharmacol.* 2008
Dec;74(6):1599-609.

Biological Activity

(S)-4CMTB (S-4CMTB, AMG 7703, Phenylacetamide 1) is a potent, specific and allosteric agonist of **FFA2 (GPR43)** with cAMP IC₅₀ of 0.7 and 0.96 μM for hFFA2 and mFFA2, respectively.

Phenylacetamide 1 is inactive against a panel of GPCRs that included FFA1, FFA3, GPR109A, growth hormone secretagogue receptor, endothelin type B receptor, CCR2, CXCR3, CXCR4, and CCR7 at 30 μM.

Phenylacetamide 1 is capable of activating both Gα_q- and Gα_i-coupled pathways for receptor function.

Phenylacetamide 1 inhibits lipolysis in 3T3L1 adipocytes in a concentration-dependent manner as measured by the reduction of glycerol production in adipocytes.

References

