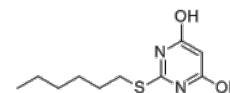


Product Name : ZQ-16
Cat. No. : PC-60642
CAS No. : 376616-73-8
Molecular Formula : C₁₀H₁₆N₂O₂S
Molecular Weight : 228.31
Target : Free Fatty Acid Receptor (FFAR)
Solubility : 10 mM in DMSO



Biological Activity

ZQ-16 is a potent and selective agonist of **GPR84** that induces calcium response with EC₅₀ of 0.213 μM.

ZQ-16 does not evoke calcium responses in HEK293 cells expressing other FFARs, including GPR40, GPR41, GPR119, and GPR120.

ZQ-16 increases in intracellular calcium concentrations in HEK293/Gα16/GPR84 cells with EC₅₀ of 1.01 μM.

ZQ-16 activates several GPR84-mediated signaling pathways, including calcium mobilization, inhibition of cAMP accumulation, phosphorylation of ERK1/2, receptor desensitization and internalization, and receptor-β-arrestin interaction.

ZQ-16 reduces forskolin-stimulated cAMP accumulation in HEK293 cells with EC₅₀ of 0.134 μM.

References

Zhang Q, et al. *J Pharmacol Exp Ther*. 2016 May;357(2):337-44.

Liu Y, et al. *ACS Med Chem Lett*. 2016 Mar 30;7(6):579-83.

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

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