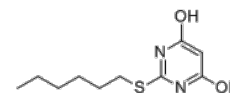


**Product Name** : ZQ-16  
**Cat. No.** : PC-60642  
**CAS No.** : 376616-73-8  
**Molecular Formula** : C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>S  
**Molecular Weight** : 228.31  
**Target** : Free Fatty Acid Receptor (FFAR)  
**Solubility** : 10 mM in DMSO



### Biological Activity

ZQ-16 is a potent and selective agonist of **GPR84** that induces calcium response with EC<sub>50</sub> of 0.213 uM.

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 EC<sub>50</sub> of 1.01 uM.

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 EC<sub>50</sub> of 0.134 uM.

### 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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