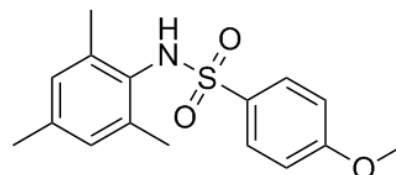


**Product Name** : GSK137647A  
**Cat. No.** : PC-45779  
**CAS No.** : 349085-82-1  
**Molecular Formula** : C<sub>16</sub>H<sub>19</sub>NO<sub>3</sub>S  
**Molecular Weight** : 305.392  
**Target** : Free Fatty Acid Receptor (FFAR)  
**Solubility** :



## Biological Activity

GSK137647A (GSK137647) is a potent, selective **GPR120 (FFA4)** agonist with pEC<sub>50</sub> of 6.3, >100-fold selectivity over the FFA1, FFA2, and FFA3 receptors.

GSK137647A augments insulin release from rat/mouse islets and rat β-cell line INS-1E.

GSK137647A attenuates both basal and LPS-induced production of IL-6 and CCL2, reduces the phosphorylation of IκBα and nuclear translocation of NFκappa-B p65 subunit (p65) in 3T3-L1 adipocytes.

GSK137647A improves postprandial hyperglycaemia of diabetic mice.

## References

Sparks SM, et al. *Bioorg Med Chem Lett*. 2014 Jul 15;24(14):3100-3.

Zhang D, et al. *Clin Sci (Lond)*. 2017 Feb 1;131(3):247-260.

Hasan AU, et al. *Biochem Biophys Res Commun*. 2017 Apr 22;486(1):76-82.

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

E-mail: tech@probechem.com