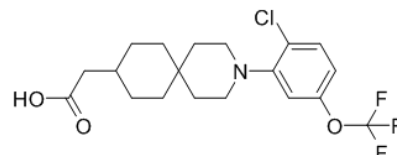


**Product Name** : GPR120 agonist 1  
**Cat. No.** : PC-42400  
**CAS No.** : 1599477-75-4  
**Molecular Formula** : C<sub>19</sub>H<sub>23</sub>ClF<sub>3</sub>NO<sub>3</sub>  
**Molecular Weight** : 405.8390296  
**Target** : Free Fatty Acid Receptor (FFAR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

GPR120 agonist 1 is a potent, fully selective, orally available **GPR120** (FFA4) agonist with pEC<sub>50</sub> of 7.62.

GPR120 shows with negligible activity towards GPR40.

GPR120 recruits β-arrestin-2 in both human and mouse Gpr120 expressing cells with EC<sub>50</sub> of ~0.35 μM, produces concentration dependent increases in IP3 production.

GPR120 exerts potent anti-inflammatory effects on macrophages in vitro and in obese mice in vivo, causes improved glucose tolerance, decreased hyperinsulinemia, increased insulin sensitivity and decreased hepatic steatosis.

## References

Oh DY, et al. *Nat Med*. 2014 Aug;20(8):942-7.

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

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