# GPR120 Agonist 4

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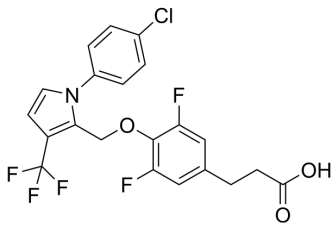
| **Cat. No.:** | HY-160628 |
| **CAS No.:** | 1628641-89-3 |
| **Molecular Formula:** | $C_{21}H_{15}ClF_5NO_3$ |
| **Molecular Weight:** | 459.79 |
| **Target:** | Free Fatty Acid Receptor |
| **Pathway:** | GPCR/G Protein |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

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| **Description** | GPR120 Agonist 4 (example 1) is a GPR120 agonist with the $EC_{50}$ values of 1 μM and 0.35 μM for β-arrestin A and Calcium A. GPR120 Agonist 4 can be used for the research of type II diabetes mellitus[1]. |
| **$IC_{50}$ & Target** | GPR120<br>1 μM (EC50) |
| **In Vitro** | GPR120 Agonist 4 (example 1) (0.012-25 μM, 90 min) can activate GPR120 through recruitment of β-Arrestin in CHO-K1 GPR120 β-Arrestin cells[1].<br>GPR120 Agonist 4 (0.012-25 μM, 90 min) promotes the release of $Ca^{2+}$ in HEK293 with human GPR120 clone, which verifies the activation effect of GPR120 Agonist 4 on GPR120[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| **In Vivo** | GPR120 Agonist 4 (example 1) (0.2/0.3/1/3/10 mg/kg, i.p., 15/30/45/60/90 min) dose-dependently promotes a decrease in glucose levels of the high fat diet mice model[1].<br>GPR120 Agonist 4 (1/3/10 mg/kg, i.p., 15/30/45/60/90 min) inhibits the glucose level of starvation mouse model in a dose-dependent manner[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. SUI, Zhihua, et al. Bicyclic pyrrole derivatives useful as agonists of gpr120. WO2015134038. 2014-03-07



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