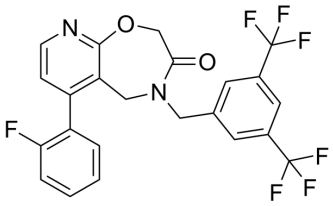
GPBAR-A

Cat. No.:	HY-107612
CAS No.:	877052-79-4
Molecular Formula:	$C_{23}H_{15}F_7N_2O_2$
Molecular Weight:	484.37
Target:	G protein-coupled Bile Acid Receptor 1
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GPBAR-A is a specific agonist of the bile acid receptor GPBAR1. GPBAR-A can be used for the research of diabetes mellitus[1].
In Vitro	GPBAR-A (3 μM; 24-36 h) stimulates the release of glucagon-like peptide (GLP-1) in GLUTag cells[1]. GPBAR-A (3 μM; 24-36 h) increases GLP-1 release 4.2-fold in primary colonic cultures[1]. GPBAR-A (3 μM; 24-36 h) increases GLP-1 release 2.6-fold in upper small intestinal cultures[1]. GPBAR-A (3 μM; 24-36 h) also increases the cAMP concentration in GLUTag cells by 57%[1]. GPBAR-A (3 μM; 24-36 h) increases GLP-1 secretion in the presence of diazoxide (KATP channel opener, 340 μM) and 70 mM KCl[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Parker HE, et al. Molecular mechanisms underlying bile acid-stimulated glucagon-like peptide-1 secretion. Br J Pharmacol. 2012 Jan;165(2):414-23.

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