GPR119

G protein coupled receptor 119

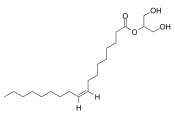
G protein-coupled receptor 119 (GPR119) is a member of the class A (rhodopsin-type) GPCR family, which is highly expressed on only a limited number of tissues, such as pancreatic β-cells and enteroendocrine cells of the gastrointestinal tract in humans. The activation of GPR119 has the stimulatory effects of glucose-dependent insulin secretion in pancreatic β-cells as well as intestinal secretion of incretin hormones including glucose-dependent insulinotropic peptide (GIP) and glucagon-likepeptide1 (GLP-1). Taken together, these effects represented a potential mechanism for modulation of glucose homeostasis and an attractive approach to the treatment of type 2 diabetes mellitus (T2DM). GPR119 can be activated by oleoylethanolamide and several other endogenous lipids containing oleic acid: these include N-oleoyl-dopamine, 1-oleoyl-lysophosphatidylcholine, generated in the tissue, and 2-oleoyl glycerol generated in the gut lumen.

GPR119 Agonists

2-Oleoylglycerol

Cat. No.: HY-W011121

2-Oleoylglycerol is a dietary naturally occurring lipid. 2-Oleoylglycerol is a **GPR119** agonist, with an EC_{50} of 2.5 μM for human GPR119 in transiently transfected COS-7 cells. 2-Oleoylglycerol stimulates glucagon-like peptide-1 (GLP-1) secretion in vivo.



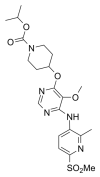
Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 5 mg (28 mM * 500 μL in Ethanol)

APD597

(JNJ-38431055)

Cat. No.: HY-15566

APD597 is a GPR119 agonist intended for the treatment of type 2 diabetes, with EC50 of 46 nM for hGPR119. IC50 value: 46 nM (EC50) Target: hGPR119 The design and synthesis of a second generation GPR119-agonist clinical candidate for the treatment of diabetes is described.

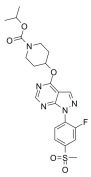


Purity: 99.97%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

APD668

Cat. No.: HY-15565

APD668 is a potent, selective and orally active agonist of **G-protein coupled receptor GPR119**, with EC_{50}s of 2.7 nM and 33 nM for **hGPR119** and **rGPR119**, respectively.

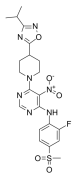


Purity: 99.71%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

AR 231453

Cat. No.: HY-15564

AR 231453 is a potent, specific and orally available **GPR119** agonist. AR 231453 can stimulate β-cell replication and improve islet graft function s.

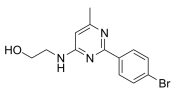


Purity: 99.84%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg

AS1269574

Cat. No.: HY-107535

AS1269574 is a potent, orally available **GPR119** agonist, with an EC_{50} of 2.5 μM in HEK293 cells expressing human GPR119. AS1269574 activates TRPA1 cation channels to stimulate glucagon-like peptide-1 (GLP-1) secretion.

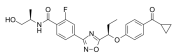


Purity: 98.76%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Firuglipel

Cat. No.: HY-109032

Firuglipel (DS-8500a) is an orally available, potent and selective **GPR119** agonist.

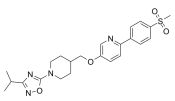


Purity: 99.21%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

GSK1292263

Cat. No.: HY-12066

GSK-1292263 is an orally available **GPR119** agonist with pEC_{50}s of 6.9 and 6.7 for human and rat GPR119, respectively. GSK-1292263 can be used for the research of type 2 diabetes mellitus (T2DM).

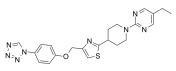


Purity: 99.71%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

MBX-2982

Cat. No.: HY-15291

MBX-2982 is a selective, orally-available G protein-coupled receptor 119 (**GPR119**) agonist.

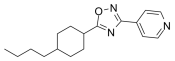


Purity: 99.54%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

PSN 375963

Cat. No.: HY-108258

PSN 375963 is a potent **GPR119** agonist, with EC_{50}s of 8.4 and 7.9 μM for human and mouse GPR119, respectively. PSN 375963 shows similar potency to the endogenous agonist oleoylethanolamide (OEA).

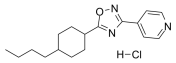


Purity: 98.46%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

PSN 375963 hydrochloride

Cat. No.: HY-108258A

PSN 375963 hydrochloride is a potent **GPR119** agonist, with EC_{50}s of 8.4 and 7.9 μM for human and mouse GPR119, respectively. PSN 375963 hydrochloride shows similar potency to the endogenous agonist oleoylethanolamide (OEA).



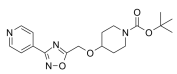
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

PSN632408

Cat. No.: HY-16673

PSN632408, a selective, orally active **GPR119** agonist, shows similar potency to OEA at both recombinant mouse and human GPR119 receptors (**EC_{50}**=5.6 and 7.9 uM, respectively). PSN632408 can stimulate β-cell replication and improve islet graft function.



Purity: 99.64%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg