Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

GSK1292263

Catalog No: tcsc0228

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1032823-75-8

Formula:
$C_{23}H_{28}N_4O_4S$

Pathway:
GPCR/G Protein

Target:
GPR119

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 30 mg/mL (65.71 mM)

Observed Molecular Weight:
456.56

Product Description

GSK1292263 is a novel GPR119 receptor agonist used for the treatment of type 2 diabetes.

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IC50 value:

Target: GPR119

in vitro: GSK-1292263 is selected from 1538 compounds by using Hypo1, the Fit-Value and Estimate of GSK-1292263 that is aligned in Hypo1 are 8.8 and 7.7 (nM), respectively [1].

in vivo: GSK-1292263 administrated at a single dose of 3-30 mg/kg in the absence of nutrients correlates with increased levels of circulating gastrointestinal peptides, including glucagon-like peptide 1 (GLP-1), gastric inhibitory polypeptide (GIP), peptide YY (PYY) and glucagon in male Sprague-Dawley rats, the increase is enhanced following administration of glucose in the oral glucose tolerance test (OGTT). GSK-129226 significant increases in the peak insulin response and insulin AUC(0-15 min) of 30-60% compared with values in the vehicle control cohort in the intravenous glucose tolerance test in rats, this insulin upregulation correlated with a significant increase in the glucose disposal rate. GSK-1292263 is associated with a statistically significant increase in insulin immunoreactivity in pancreatic sections in a 6-week study performed in Zucker diabetic fatty rats, compared with insulin immunoreactivity in samples obtained from rats receiving vehicle control. GSK-1292263 administrated at dose of 10 or 30 mg/kg or vehicle control at 2 hours prior to insulin infusion in hyperinsulinemic-euglycemic clamps stimulates glucagon secretion without increasing blood glucose levels Sprague-Dawley rats [2].