Taiclone®
Quality Guarantee

Web: www.taiclone.com
Tel: +886-2-2735-9682
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CID 16020046

Catalog No: tcsc3230

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
834903-43-4

Formula:
$C_{25}H_{19}N_3O_4$

Pathway:
GPCR/G Protein

Target:
GPR55

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 28 mg/mL (65.81 mM)

Observed Molecular Weight:
425.44

Product Description

CID 16020046 is a potent and selective GPR55(LPI receptor) antagonist; inhibitsGPR55 constitutive activity with IC50 of 0.15 uM.

IC50 value: 0.15 uM [1]

Target: GPR55 antagonist

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In yeast cells expressing human GPR55, CID16020046 antagonized agonist-induced receptor activation. In human embryonic kidney(HEK293) cells stably expressing human GPR55, the compound behaved as an antagonist on LPI-mediated Ca2+ release and extracellular signal-regulated kinases activation, but not in HEK293 cells expressing cannabinoid receptor 1 or 2.CID16020046 concentration dependently inhibited LPI-induced activation of nuclear factor of activated T-cells (NFAT), nuclear factor k of activated B cells (NF-kB) and serum response element, translocation of NFAT and NF-kB, and GPR55 internalization. It reduced LPI-induced wound healing in primary human lung microvascular endothelial cells and reversed LPI-inhibited platelet aggregation.