

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

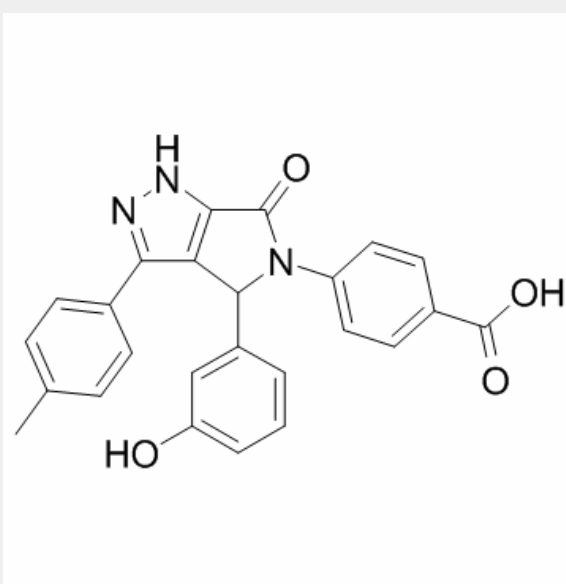
Product Description

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

IC50 value: 0.15 μ M [1]

Target: GPR55 antagonist

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 Ca^{2+} 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 κ of activated B cells (NF- κ B) and serum response element, translocation of NFAT and NF- κ B, and GPR55 internalization. It reduced LPI-induced wound healing in primary human lung microvascular endothelial cells and reversed LPI-inhibited platelet aggregation.



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