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

MBX-2982

Catalog No: tcsc0745

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1037792-44-1

Formula:
$C_{22}H_{24}N_8OS$

Pathway:
GPCR/G Protein

Target:
GPR119

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
448.54

Product Description

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

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) agonist.

IC50 & Target: GPR119[1]

In Vitro: In cells pre-treated with MBX-2982 (1 μM) in “chronic incubation/washout” experiments, cAMP accumulation captured by IBMX inclusion is significantly increased compared to control cells (P50s of 8.67±0.11 and 8.93±0.17, respectively. Likewise, a large but less severe shift in concentration responses (57.54 fold) is observed for MBX-2982 with respective sustained and acute pEC_{50}s of 7.03±0.13 and 8.79±0.12[1].

In Vivo: To examine whether the observations in GLUTag and the primary intestinal cells has physiological relevance, C57BL/6 mice are treated with the GPR119 agonist MBX-2982 at a dose of 10 mg/kg. Note that in order to examine a direct GPR119 effect, no DPP-IV inhibitor is co-administered in this experiment, but a DPP-IV inhibitor is used to preserve active GLP-1 in the blood samples. The plasma GLP-1 levels from the mice dosed with MBX-2982 are increased without a glucose load, indicating that GPR119-mediated GLP-1 secretion is not dependent on glucose[2].