

MBX-2982

Catalog No: tcsc0745



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

1037792-44-1

Formula:

$C_{22}H_{24}N_8O_5$

Pathway:

GPCR/G Protein

Target:

GPR119

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

448.54

Product Description

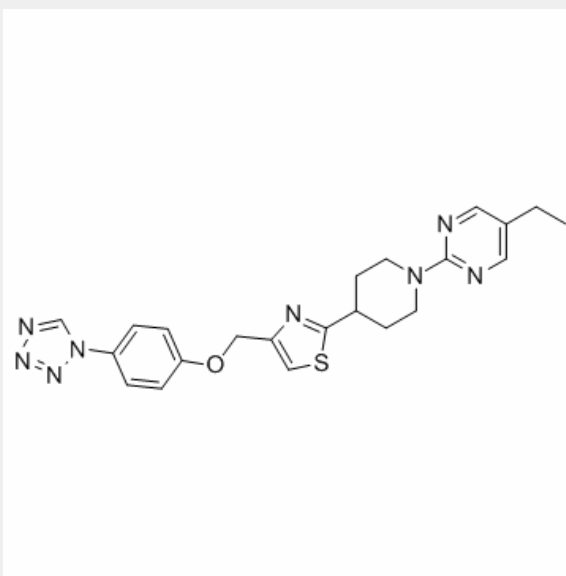
MBX-2982 is a selective, orally-available G protein-coupled receptor 119 (**GPR119**)

) agonist.

IC50 & Target: GPR119^[1]

In Vitro: In cells pre-treated with MBX-2982 (1 μ M) 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 pEC₅₀s 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].



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