ML192

Cat. No.: HY-122246

CAS No.: 460331-61-7

Molecular Formula: $C_{20}H_{22}N_4O_2S$

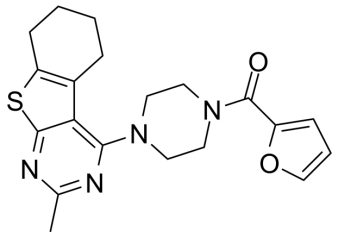
Molecular Weight: 382.48

Target: GPR55; PKC; ERK; Arrestin

Pathway: GPCR/G Protein; Neuronal Signaling; Epigenetics; TGF-beta/Smad; MAPK/ERK Pathway; Stem Cell/Wnt

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (261.45 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.6145 mL	13.0726 mL	26.1452 mL
5 mM	0.5229 mL	2.6145 mL	5.2290 mL
10 mM	0.2615 mL	1.3073 mL	2.6145 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.54 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ML192 is a selective ligand antagonist of GPR55. ML192 inhibits the β-arrestin trafficking, ERK1/2 phosphorylation and PKCβ II translocation[1].

IC_{50} & Target	ERK2	ERK1	PKCβII

In Vitro

ML192 inhibits the β-arrestin trafficking induced by 10 μM L-α lysophosphatidylinositol (LPI) or 1 μM ML186 with IC_{50} values

of 0.70 μM and 0.29 μM, respectively[1].

ML192 significantly inhibits ERK1/2 phosphorylation in GPRSS-expressing U2OS cells with an IC_{50} value of 1.1 μM[1].

ML192 (0, 10, 30 and 100 μM) reduces the translocation of PKCβII in cells with the Wild-Type GPR55 receptor[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kotsikorou E, et al. Identification of the GPR55 antagonist binding site using a novel set of high-potency GPR55 selective ligands. Biochemistry. 2013 Dec 31;52(52):9456-69.

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