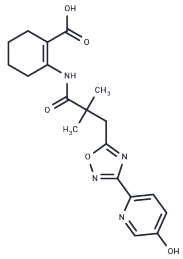
Data Sheet (Cat.No.TQ0108)

TargetMol
YOUR TARGET MOLECULES

MK-6892

Chemical Properties



CAS No. : 917910-45-3

Formula: C19H22N4O5

Molecular Weight: 386.4

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	MK-6892 is a selective and full agonist for the high-affinity nicotinic acid receptor GPR109A (Ki: 4 nM; GTPγS EC50: 16 nM).
Targets(IC50)	GPR
In vitro	MK-6892 effectively induces the internalization of GPR109A in U2OS β-arrestin2-RrGFP cells and demonstrates a potent EC50 of 74 nM in calcium mobilization assays [2].
In vivo	MK-6892 is orally administered to WT or nicotinic acid (NA) receptor null mice on the same C57Bl/6 genetic background. After 15 min of 100 mg/kg dosing of MK-6892 to fed WT or NA receptor null mice, the blood levels of MK-6892 at 15 min are 229 μM (~950-fold greater than the in vitro EC50 determined in mouse NA receptor GTPγS assay, which is 240 nM) in WT mice and 148 μM (~620-fold greater than the in vitro EC50) in NA receptor null mice. MK-6892 effectively suppresses plasma FFA in the WT but not in the NA receptor null animals, indicating that the FFA reduction of MK-6892 is NA receptor-dependent [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (129.40 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.588 mL	12.940 mL	25.8799 mL
5 mM	0.5176 mL	2.588 mL	5.176 mL
10 mM	0.2588 mL	1.294 mL	2.588 mL
50 mM	0.0518 mL	0.2588 mL	0.5176 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Zhu S, Yuan Q, Li X, et al.Molecular recognition of niacin and lipid-lowering drugs by the human hydroxycarboxylic acid receptor 2.Cell Reports.2023, 42(11).

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481