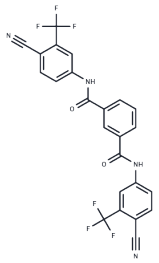
Data Sheet (Cat.No.T5100)

TargetMol

DJ-V-159

Chemical Properties



CAS No. : 2253744-53-3

Formula: C24H12F6N4O2

Molecular Weight: 502.37

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	DJ-V-159 is a GPRC6A agonist, targeting the G protein-coupled receptor family C group 6 member A (GPRC6A).
Targets(IC50)	Androgen Receptor,GPCR
In vitro	DJ-V159 activates ERK in HEK-293 cells transfected with GPRC6A but not in non-transfected HEK-293 cells, with potency similar to L-Arg. Additionally, DJ-V159 dose-dependently stimulates cAMP production in GPRC6A-expressing HEK-293 cells at 0.2 nM concentrations in the media. DJ-V159 also stimulates insulin secretion in mouse beta-cell MIN-6 cells, with an insulin stimulation index (SI) similar to Ocn, a known ligand of GPRC6A [1].
In vivo	DJ-V-159 (10 mg/kg, i.p.) reduces blood glucose levels in wild-type mice at 60 and 90 minutes, whereas the vehicle (95% PEG + 5% DMSO) has no effect on blood glucose. DJ-V-159 (10 mg/kg, i.p.) reduces blood glucose levels in wild-type mice by 43.6% and 41.9% at 60 and 90 minutes, respectively. The mice tolerated this short-term exposure to DJ-V-159 without any overt side-effects. DJ-V-159, however, is almost in or on the boundary of the Lipinski's Rule of Five [1].

Solubility Information

Solubility	DMSO: 5.03 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9906 mL	9.9528 mL	19.9056 mL
5 mM	0.3981 mL	1.9906 mL	3.9811 mL
10 mM	0.1991 mL	0.9953 mL	1.9906 mL
50 mM	0.0398 mL	0.1991 mL	0.3981 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pi M, et al. Computationally identified novel agonists for GPRC6A. PLoS One. 2018 Apr 23;13(4):e0195980.