

Data Sheet

 Product Name:
 DJ-V-159

 Cat. No.:
 CS-0077824

 CAS No.:
 2253744-53-3

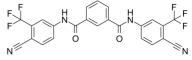
 Molecular Formula:
 C24H12F6N4O2

Molecular Weight: 502.37

Target: Androgen Receptor

Pathway: Others

Solubility: DMSO: 25 mg/mL (49.76 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

DJ-V-159 is an agonist for G protein-coupled receptor family C group 6 member A (GPRC6A). IC50 & Target: GPRC6A^[1]. In Vitro: DJ-V-159 activates ERK in HEK-293 transfected with GPRC6A but not in non-transfected HEK-293 cells, with potency similar to L-Arg. In addition, DJ-V-159 dose-dependently stimulates cAMP production in GPRC6A expressing HEK-293 cells, achieving a response a 0.2 nM concentrations in the media. DJ-V-159 stimulates insulin secretion in mouse beta-cell MIN-6 cells. The DJ-V-159 increased insulin stimulation index (SI) in MIN-6 cells similar to the effects of Ocn, known ligand of GPRC6A^[1]. In Vivo: DJ-V-159 at the dose of 10 mg/kg reduces blood glucose levels in wildtype mice at 60 and 90 minutes after intraperitoneal administration of 10 mg/kg, whereas the vehicle (95% PEG + 5% DMSO) has no effect on blood glucose. DJ-V-159 reduces blood glucose levels in wild-type mice by 43.6% and 41.9% at 60 and 90 minutes, respectively, after intraperitoneal administration of 10 mg/kg. 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]

PROTOCOL (Extracted from published papers and Only for reference)

Animal Administration: [1]Mice[1]

8 to 10 weeks ago wild type C57BL/6 mice are fasted for 5 hours, injected ip with $\{DJ-V-159\}$ (10 mg/kg body weight), or Metformin (300 mg/kg body weight), or vehicle (95% PEG + 5% DMSO; 10 μ L/g body weight). Blood glucose levels are measured at 0, 30, 60 and 90 minutes after injection^[1].

References:

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

CAIndexNames:

1,3-Benzenedicarboxamide, N1,N3-bis[4-cyano-3-(trifluoromethyl)phenyl]-

SMILES:

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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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