

Product Data Sheet

DJ-V-159

 Cat. No.:
 HY-114165

 CAS No.:
 2253744-53-3

 Molecular Formula:
 $C_{24}H_{12}F_{6}N_{4}O_{2}$

 Molecular Weight:
 502.37

Target: Androgen Receptor

Pathway: Vitamin D Related/Nuclear Receptor

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 2 years

-20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

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

| Preparing Stock Solutions | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg |
|------------------------------|-------------------------------|-----------|-----------|------------|
| | 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 |

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

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|-----|----------|-----------------|-------|-----|
| BIU | 11.07.21 | | | 4 |

| Description | DJ-V-159 is an agonist for G protein-coupled receptor family C group 6 member A (GPRC6A). |
|---------------------------|---|
| IC ₅₀ & 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| 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] . |

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PROTOCOL

Animal
Administration [1]

 $\mathsf{Mice}^{[1]}$

8 to 10 weeks ago wild type C57BL/6 mice are fasted for 5 hours, injected ip with Ω (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].

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REFERENCES

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

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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