



AdipoRon

Data Sheet

Catalog Number: MC11038 **Product** Small Molecule

Type:

924416-43-3 **Bio-Activity:** CAS #: Adiponectin agonist

Chemical

Diabetes, obesity, liver disease, 2-(4-Benzylphenoxy)-N-(1-Name: **Research Categories:** benzylpiperidin-4-yl)acetamide

neurodegeneration

Soluble in DMSO (up to 40 mg/ml) or in Solubility: Molecular C27H28N2O3 Ethanol (up to 20 mg/ml). Formula:

> 98% **Purity:** Molecular

428.54 Weight:

Powder **Ambient** Format: Ship

Temp:

Storage: Room Temperature

Application Notes

Description/Data:

A novel potent and selective adiponectin (AdipoR1 and AdipoR2) receptor agonist, Kd=1.8 and 3.1 μM respectively1. Displayed similar effects to adiponectin in muscle and liver such as activation of PPARα and AMPK signaling pathways. It also reversed insulin resistance and glucose intolerance in mice on a high-fat diet. It ameliorated diabetes in a genetically obese mouse model and prolonged the shortened lifespan of db/db mice on a high-fat diet [1]. Active in vivo.

References:

1) Okada-Iwabu et al. (2013), A small-molecule AdipoR agonist for type 2 diabetes and short life obesity; Nature, 503 493

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