NEUROMICS

AdipoRon Data Sheet

Catalog Number:	MC11038	**Product Type:**	Small Molecule
Bio-Activity:	Adiponectin agonist	**CAS #:**	924416-43-3
Research Categories:	Diabetes, obesity, liver disease, neurodegeneration	**Chemical Name:**	2-(4-Benzylphenoxy)-N-(1-benzylpiperidin-4-yl)acetamide
Solubility:	Soluble in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml).	**Molecular Formula:**	C27H28N2O3
Purity:	> 98%	**Molecular Weight:**	428.54
Format:	Powder	**Ship Temp:**	Ambient
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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