

AdipoRon, Adiponectin agonist

Catalog	Unit
TBI1483 - 10MG	10 mg
TBI1483 - 50MG	50 mg

Product Details

Formal Name: 2-(4-Benzylphenoxy)-N-(1-benzylpiperidin-4-yl)acetamide

Molecular Formula: C₂₇H₂₈N₂O₃

Formula Weight: 428.54

CAS Number: 924416-43-3

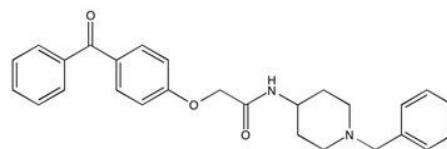
Purity: >98%

Formulation: Powder

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

Storage: RT

Stability: ≥ 2 years.



Applications

Adiponectin agonist

Functions

AdipoRon (924416-43-3) is a novel potent and selective adiponectin (AdipoR1 and AdipoR2) receptor agonist, $K_d=1.8$ and $3.1 \mu\text{M}$ respectively. Displayed similar effects to adiponectin in muscle and liver such as activation of PPAR α and AMPK signaling pathways. It also reversed insulin resistance and glucose intolerance in mice on a high-fat diet. AdipoRon ameliorated diabetes in a genetically obese mouse model and prolonged the shortened lifespan of db/db mice on a high-fat diet. Attenuates PDGF-induced VSMC proliferation via inhibition of mTPR signaling in an AMPK independent manner. Active *in vivo*.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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