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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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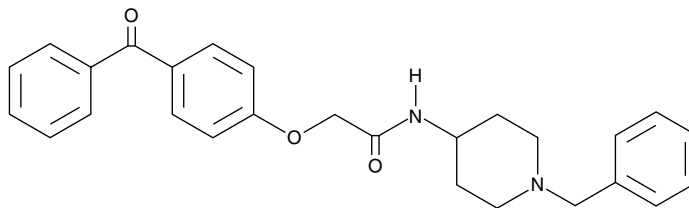
Product Information



AdipoRon

Item No. 15941

CAS Registry No.: 924416-43-3
Formal Name: 2-(4-benzoylphenoxy)-N-[1-(phenylmethyl)-4-piperidinyl]-acetamide
MF: C₂₇H₂₈N₂O₃
FW: 428.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 283 nm



Laboratory Procedures

For long term storage, we suggest that AdipoRon be stored as supplied at -20°C. It should be stable for at least two years.

AdipoRon is supplied as a crystalline solid. A stock solution may be made by dissolving the AdipoRon in the solvent of choice. AdipoRon is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of AdipoRon in these solvents is approximately 15, 20, and 10 mg/ml, respectively.

AdipoRon is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AdipoRon should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AdipoRon has a solubility of approximately 0.25 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Adiponectin expressed by adipocytes exerts antidiabetic effects by binding to adiponectin receptor (AdipoR)1, which activates AMPK pathways, and AdipoR2, which activates PPARα pathways. AdipoRon is an orally active small molecule AdipoR agonist that binds AdipoR1 and AdipoR2 with K_D values of 1.8 and 3.1 μM, respectively.¹ At 50 mg/kg, it acts similarly to adiponectin, activating AMPK and PPARα pathways and reducing insulin resistance and glucose intolerance in wild type mice fed a high-fat diet and in genetically obese *db/db* mice.¹

Reference

1. Okada-Iwabu, M., Yamauchi, T., Iwabu, M., *et al.* A small-molecule AdipoR agonist for type 2 diabetes and short life in obesity. *Nature* **503**(7477), 493-499 (2013).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15941

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

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