

Product Name: AdipoRon hydrochloride

Catalog No.: 5096

Batch No.: 4

CAS Number: 1781835-20-8

IUPAC Name: 2-(4-Benzoyloxyphenoxy)-N-[1-(phenylmethyl)-4-piperidinyl]acetamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₈N₂O₃.HCl.H₂O

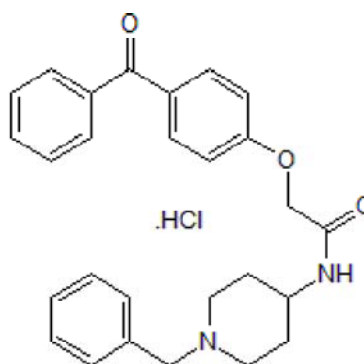
Batch Molecular Weight: 483

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.14	6.47	5.8
Found	67.22	6.52	5.9

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: AdipoRon hydrochloride

Catalog No.: 5096

Batch No.: 4

CAS Number: 1781835-20-8

IUPAC Name: 2-(4-Benzyoylphenoxy)-N-[1-(phenylmethyl)-4-piperidinyl]acetamide hydrochloride

Description:

AdipoRon hydrochloride is an agonist of adiponectin receptors AdipoR1 and AdipoR2 (K_d values are 1.8 and 3.1 μ M respectively). Activates AMPK and PPAR α signaling; ameliorates insulin resistance, dyslipidemia and glucose intolerance in db/db mice. Orally active antidiabetic agent.

Physical and Chemical Properties:

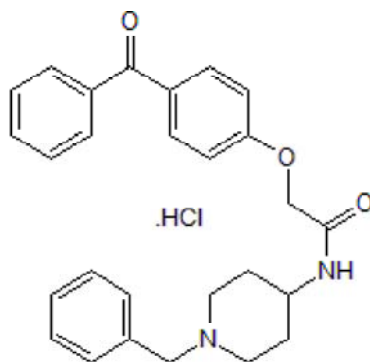
Batch Molecular Formula: $C_{27}H_{28}N_2O_3 \cdot HCl \cdot H_2O$

Batch Molecular Weight: 483

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Okada-Iwabu *et al* (2013) A small-molecule AdipoR agonist for type 2 diabetes and short life in obesity. *Nature* **503** 493. PMID: 24172895.

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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