

**Product Name:** AdipoRon hydrochloride

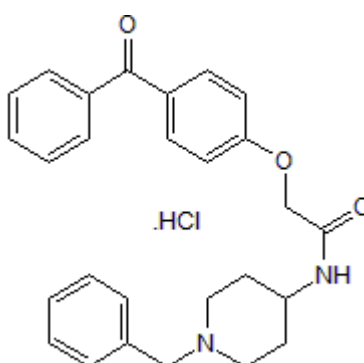
**Catalog No.:** 5096

**Batch No.:** 1

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>·HCl·½H<sub>2</sub>O  
**Batch Molecular Weight:** 473.99  
**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 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.42	6.38	5.91
Found	68.27	6.52	5.96

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**Description:**

Agonist of adiponectin receptors AdipoR1 and AdipoR2 ( $K_d$  values are 1.8 and 3.1  $\mu$ M respectively). Activates AMPK and PPAR $\alpha$  signaling; ameliorates insulin resistance, dyslipidemia and glucose intolerance in db/db mice. Orally active antidiabetic agent.

**Physical and Chemical Properties:**

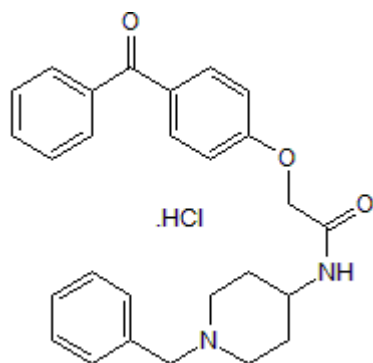
Batch Molecular Formula: C<sub>27</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 473.99

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**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.

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