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## DATASHEET

AdipoRon

### Product overview

<b>Name</b>	AdipoRon
<b>Cat No</b>	HB3738
<b>Purity</b>	>98%
<b>Description</b>	Adiponectin receptor (AdipoR) agonist

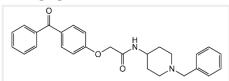
### Biological Data

<b>Biological description</b>	Orally-active adiponectin receptor (AdipoR) agonist. Binds to AdipoR1 and AdipoR2 at low $\mu\text{M}$ concentration. Activates 5'-adenosine monophosphate-activated protein kinase (AMPK) in cultured mammalian cells. Activates peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC1alpha) which boosts mitochondrial proliferation and energy metabolism. Improves diabetes, glucose and lipid metabolism and insulin sensitivity in cultured cells and in mice by AdipoR-dependent mechanisms. Rescued the shortened lifespan of db/db mice (AdipoRs KO) on high-fat diet. Reduces expression levels of genes encoding inflammatory cytokines such as TNF-alpha, IL-6 and CCL-2 in WAT of WT mice but not db/db mice.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Storage buffer</b>	Soluble in DMSO (~30mg/ml)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	428.5
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$\text{C}_{27}\text{H}_{28}\text{N}_2\text{O}_3$
<b>CAS Number</b>	924416-43-3
<b>InChiKey</b>	SHHUPGSHGSPDB-UHFFFAOYSA-N
<b>Appearance</b>	White solid