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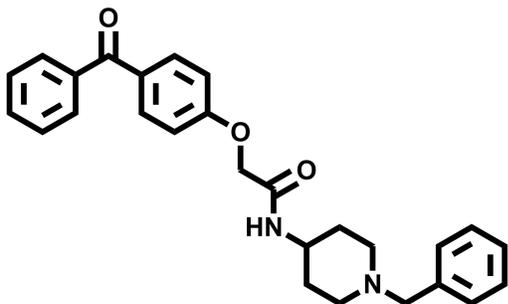
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Adiponectin Receptor/AdipoR agonist – AdipoRon

Chemical Name: 2-(4-benzoylphenoxy)-N-(1-benzylpiperidin-4-yl)acetamide



Molecular Weight:	428.52
Formula:	C ₂₇ H ₂₈ N ₂ O ₃
Purity:	≥98%
CAS#:	924416-43-3
Solubility:	DMSO up to 50 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

AdipoRon is a novel, highly potent, selective and orally active small molecule agonist of adiponectin receptor (AdipoR). AdipoRon binds to both AdipoR1 and AdipoR2 (EC₅₀ for AdipoR1 ~1.8 μM and AdipoR2 ~3.1 μM). AdipoRon showed very similar effects to adiponectin in muscle and liver, such as activation of AMPK and PPAR-α pathways, and ameliorated insulin resistance and glucose intolerance in mice fed with a high-fat diet, which was completely obliterated in AdipoR1 and AdipoR2 double-knockout mice. Moreover, AdipoRon ameliorated diabetes of genetically obese rodent model db/db mice, and prolonged the shortened lifespan of db/db mice on a high-fat diet. AdipoRon could serve as a very useful chemical probe for studies of obesity-related diseases such as type 2 diabetes by activating AdipoR1 and AdipoR2.

How to Use:

In vitro: AdipoRon was used at 10-25 μM final concentration in vitro and in cellular assays.

In vivo: AdipoRon was administered orally to mice at 50 mg/kg once per day.

Reference:

1. Okada-Iwabu, et al. A small-molecule AdipoR agonist for type 2 diabetes and short life in obesity. (2013) Nature. 503(7477):493-9.

Products are for research use only. Not for human use.