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## AdipoRon

产品编号: D50819

CAS: 924416-43-3

分子式: C<sub>27</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>

纯度: ≥98%

InChi: InChi=1S/C<sub>27</sub>H<sub>28</sub>N<sub>2</sub>O<sub>3</sub>/c30-26(28-24-15-17-29(18-16-24)19-21-7-3-1-4-8-21)20-32-25-13-11-2  
3(12-14-25)27(31)22-9-5-2-6-10-22/h1-14,24H,15-20H<sub>2</sub>, (H,28,30)

InChi Key: SHHUPGSHGSPDB-UHFFFAOYSA-N

Smiles: O=C(COC1C=CC(=CC=1)C(=O)C1C=CC=CC=1)NC1CCN(CC2C=CC=CC=2)CC1

外观: 固体粉末

作用通路: Adiponectin Receptor

溶解性: DMSO up to 50 mM

保存条件: Store in dry, dark place for one year.

产品介绍: AdipoRon is a novel, highly potent, selective and orally active small molecule agonist of adiponectin receptor (AdipoR). AdipoRon binds to both AdipoR1 and AdipoR2 (EC<sub>50</sub> 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.