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## Product Data Sheet

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Product Name: AdipoRon hydrochloride

Cat. No.: GC35251

**Chemical Properties**

Cas. No. 1781835-20-8

SMILES O=C(C1=CC=CC=C1)C2=CC=C(OCC(NC3CCN(CC4=CC=CC=C4)CC3)=O)C=C2.ClFormula  $C_{27}H_{29}ClN_2O_3$  M.Wt 464.98

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Adiponectin expressed by adipocytes exerts antidiabetic effects by binding to adiponectin receptor (AdipoR)1, which activates AMPK pathways, and AdipoR2, which activates PPAR $\alpha$  pathways. AdipoRon is an orally active small molecule AdipoR agonist that binds AdipoR1 and AdipoR2 with  $K_D$  values of 1.8 and 3.1  $\mu$ M, respectively.<sup>1</sup> At 50 mg/kg, it acts similarly to adiponectin, activating AMPK and PPAR $\alpha$  pathways and reducing insulin resistance and glucose intolerance in wild type mice fed a high-fat diet and in genetically obese *db/db* mice.<sup>1</sup>

1.Okada-Iwabu, M., Yamauchi, T., Iwabu, M., et al. A small-molecule AdipoR agonist for type 2 diabetes and short life in obesity *Nature* 503(7477)493-499(2013)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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