

Mazdutide acetate(2259884-03-0 free base)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Mazdutide acetate is a potent co-agonist of glucagon-like peptide (GLP-1R) and glucagon receptor (GCGR), a gastrin-regulating hormone analog.Mazdutide acetate stimulates insulin secretion from mouse pancreatic islets, and can be used in studies of obesity and type 2 diabetes (T2D).
Targets(IC50)	Glucagon Receptor
In vitro	In oral glucose tolerance tests of diet-induced obese (DIO) and streptozotocin-induced diabetic mice, a single subcutaneous (SC) dose of Mazdutide acetate(15, 30 nmol/kg;) significantly reduced glucose area under the curve by up to 65%[3].

Reference

- Chen T, et al. The Design and Optimization of Monomeric Multitarget Peptides for the Treatment of Multifactorial Diseases. J Med Chem. 2022 Mar 10;65(5):3685-3705.
- Jiang H, et al. A phase 1b randomised controlled trial of a glucagon-like peptide-1 and glucagon receptor dual agonist IBI362 (LY3305677) in Chinese patients with type 2 diabetes. Nat Commun. 2022 Jun 24;13(1):3613.
- Chen Y,et al. 682-P: novel dual glucagon and glucagon-like peptide-1 receptor agonist LY3305677 improves glucose control, reduces body weight, and increases energy expenditure in mice[[]. Diabetes, 2021, 70 (Supplement_1).

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