
Product Name	: Retatrutide	Retatrutide
Cat. No.	: PC-21069	
CAS No.	: 2381089-83-2	CAS: 2381089-83-2
Molecular Formula	: C ₂₂₁ H ₃₄₂ N ₄₆ O ₆₈	
Molecular Weight	: 4731.33	
Target	: Glucagon Receptor	
Solubility	: 10 mM in DMSO	

Biological Activity

Retatrutide (LY3437943) is a potent, triple agonist peptide of glucagon receptor (GCGR), glucose-dependent insulinotropic polypeptide receptor (GIPR), and glucagon-like peptide-1 receptor (GLP-1R) with EC50 of 5.79 nM, 0.064 nM and 0.775 nM in cAMP assays.

Retatrutide (LY3437943) is a full agonist at the GCGR, GIPR, and GLP-1R in the functional assays.

Retatrutide (LY3437943) also is a potent agonist at the mouse GCGR, GIPR, and GLP-1R in receptor binding affinity and functional potency assays in vitro.

Retatrutide (LY3437943) promotes body weight loss in C57/Bl6 diet-induced obese (DIO) mice with ED50 of 4.73 nmol/kg.

Retatrutide (LY3437943) increases energy expenditure through glucagon receptor engagement in obese mice.

Retatrutide (LY3437943) causes greater body weight loss in obese mice than tirzepatide (Cat# PC-72629), increases energy expenditure through glucagon receptor activation.

References

Coskun T, et al. Cell Metab. 2022 Sep 6;34(9):1234-1247.e9.

Rosenstock J, et al. Lancet. 2023 Aug 12;402(10401):529-544.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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