

Retatrutide acetate

Chemical Properties

CAS No. :

Formula: C221H342N46O68.C2H4O2

Molecular Weight: 4791.38

Keep away from moisture

Storage: 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	Retatrutide acetate (LY3437943) is a peptide and triple agonist for the glucagon receptor (GCGR), glucose-dependent insulinotropic polypeptide receptor (GIPR), and glucagon-like peptide-1 receptor (GLP-1R), exhibiting potent inhibitory effects on human GCGR, GIPR, and GLP-1R with EC50 values of 5.79, 0.0643, and 0.775 nM respectively; it is utilized in obesity research [1].
Targets(IC50)	Glucagon Receptor
In vitro	Retatrutide acetate (LY3437943) exhibits activity against human GCGR, GIPR, and GLP-1R with EC50 values of 5.79, 0.0643, and 0.775 nM, respectively [1]. In mice, the EC50 values are 2.32, 0.191, and 0.794 nM [1]. Additionally, retatrutide acetate demonstrates binding affinity to the human receptors with Ki values of 5.6, 0.057, and 7.2 nM [1], and to the mouse receptors with Ki values of 73, 2.8, and 1.3 nM [1].
In vivo	Retatrutide (LY3437943) acetate, administered subcutaneously at a dosage of 0.47 mg/kg in a single injection, engages the GCGR and is capable of improving glucose tolerance in the ipGTT through interaction with GIP or GLP-1 receptors [1]. Additionally, when given at 10 mL/kg every third day over a 21-day period, Retatrutide acetate significantly reduces body weight and increases energy expenditure via the activation of the glucagon receptor [1]. Retatrutide acetate has been found to be safe and well-tolerated [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2087 mL	1.0435 mL	2.0871 mL
5 mM	0.0417 mL	0.2087 mL	0.4174 mL
10 mM	0.0209 mL	0.1044 mL	0.2087 mL
50 mM	0.0042 mL	0.0209 mL	0.0417 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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