

## 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

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