



BMA BIOMEDICALS



Peninsula Laboratories

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## Retatrutide ELISA

Retatrutide is a triple-agonist peptide for the treatment of obesity and metabolic diseases still in development (Eli Lilly LY3437943). It simultaneously activates the GLP-1, GIP, and glucagon receptors, a broader profile than dual-agonists like Tirzepatide. In early clinical studies, Retatrutide has produced substantial weight-loss effects; among the most pronounced reported for any peptide therapy to date - along with improvements in metabolic markers such as blood glucose and lipids.

This ELISA was developed with serum from rabbits immunized with Retatrutide coupled to a carrier protein.

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### TECHNICAL AND ANALYTICAL CHARACTERISTICS

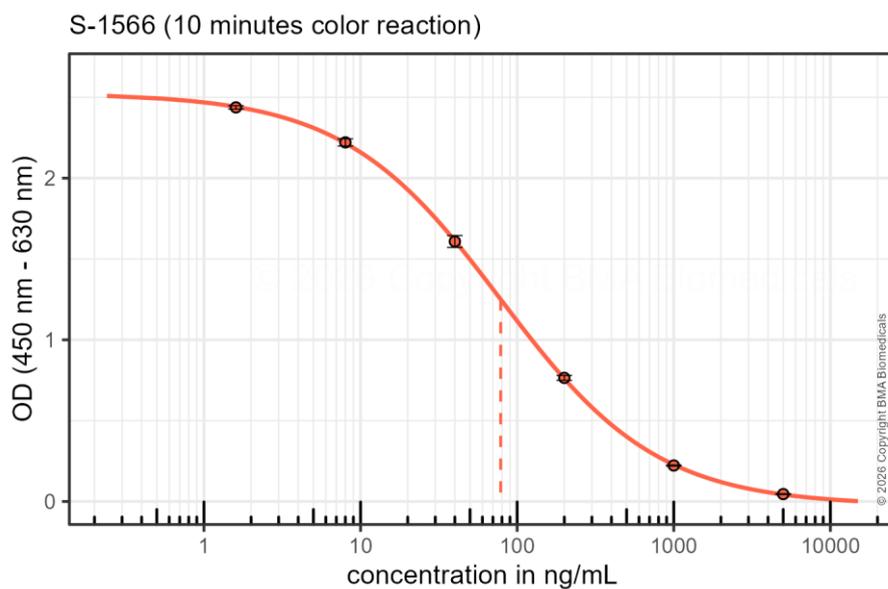
<b>Product number:</b>	S-1566 (Lot A18PO26025)
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Formulated for extracted samples (EIAH type).
<b>Shelf-life:</b>	One year from date of purchase. Store refrigerated at 4° - 8°C.
<b>Applications:</b>	This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples. For research use only. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Std Range:</b>	0 - 5'000 ng/ml
<b>Linear Range:</b>	16 - 388 ng/ml
<b>Sensitivity:</b>	15.9 ng/ml (analyte concentration at 80 % B/B <sub>0</sub> )
<b>Average IC<sub>50</sub>:</b>	78.5 ng/ml
<b>Average CV:</b>	4.7% (intra-assay)
<b>Immunogen:</b>	Synthetic peptide H-Tyr-{Aib}-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Ile- {α-Me-Leu}-Leu-Asp-Lys-{diacid-C20-gamma-Glu-(AEEA)-Lys}-Ala-Gln- {Aib}-Ala-Phe-Ile-Glu-Tyr-Leu-Leu-Glu-Gly-Gly-Pro-Ser-Ser-Gly-Ala-Pro- Pro-Pro-Ser-NH <sub>2</sub> coupled to carrier protein.

**Protein database:** [Retatrutide](#)

**Cross-Reactivity:**

<i>Peptide:</i>	<i>%</i>
Retatrutide	100
Tirzepatide	19.1
Liraglutide	0.01
Semaglutide	0
GLP-1	0

Typical titration curve of Retatrutide in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0 to 5'000 ng/ml
<b>Stock</b>	5'000	
<b>S1</b>	5'000	1'000 µl Stock
<b>S2</b>	1'000	Add 200 µl S1 + 800 µl diluent
<b>S3</b>	200	Add 200 µl S2 + 800 µl diluent
<b>S4</b>	40	Add 200 µl S3 + 800 µl diluent
<b>S5</b>	8	Add 200 µl S4 + 800 µl diluent
<b>S6</b>	1.6	Add 200 µl S5 + 800 µl diluent
<b>S0</b>	0	1000 µl diluent

This product contains ProClin™ 150 as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.