



BMA BIOMEDICALS



Peninsula Laboratories

Glucagon (1-29) (human, porcine, rat) ELISA

Glucagon is a peptide hormone secreted from the pancreatic Islet of Langerhans alpha-cells. It works to raise the concentration of glucose and fatty acids in the bloodstream, and is considered to be the main catabolic hormone of the body. Glucagon (1-29) acts on hepatic enzymes that regulate glucose production and glycogen synthesis. Excessive amounts of circulating glucagon are implicated in the metabolic dysregulation of type 2 diabetes, since such conditions result in hyperglycemia.

This ELISA was developed with serum from rabbits immunized with Glucagon (1-29) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1349 (Lot A18027)
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for human serum or plasma (EIAS type).
Shelf-life:	One year from date of purchase. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with samples of human origin, following protocol V. Please see www.bma.ch for protocols and general information.
Range:	0 - 10 ng/ml
Average IC₅₀:	1.8 ng/ml
Immunogen:	Synthetic peptide H-His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-Val-Gln-Trp-Leu-Met-Asn-Thr-OH coupled to carrier protein.

Protein database: [human-P01275](#), [porcine-P01274](#), [rat-P06883](#)

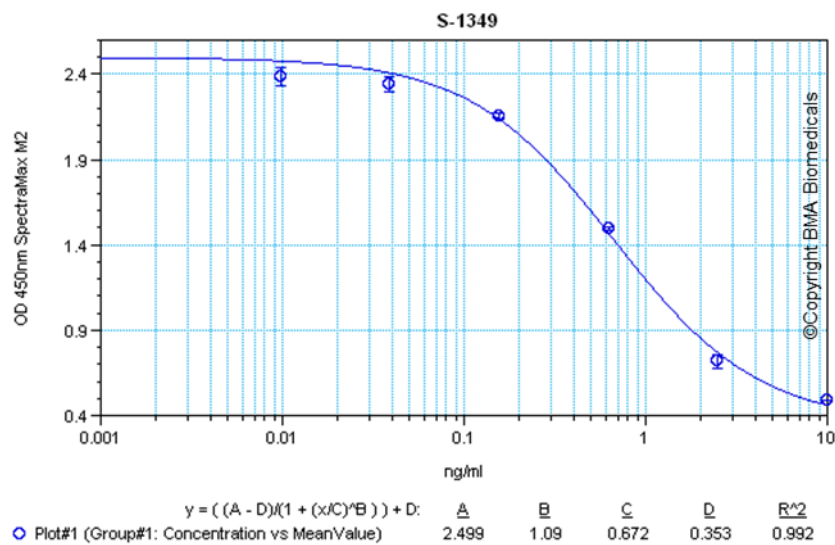
Cross-Reactivity:

PEPTIDE	%
Glucagon (1-29) (human, porcine, rat)	100
Insulin (human)	0
Somatostatin-14	0
α -CGRP (human)	0
Amylin (human)	0
Amylin (free acid) (rat)	0
Pancreatic Polypeptide (human)	0
Glucagon (19-29) (human)	0

Cross-Reactivity:

PEPTIDE	%
Glucagon-like Peptide I (GLP-I) (human)	0
GLP-2 (human)	0
Proinsulin (human)	0

Typical titration curve of Glucagon (1-29) in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.01 to 10ng/ml
Stock	1000	
S1	10.00	Add 10µl Stock + 990µl diluent
S2	2.50	Add 200µl S1 + 600µl diluent
S3	0.63	Add 200µl S2 + 600µl diluent
S4	0.16	Add 200µl S3 + 600µl diluent
S5	0.04	Add 200µl S4 + 600µl diluent
S6	0.01	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products:

- S-1211: ELISA, high sensitivity for extracted samples
- T-4359: Rabbit anti Glucagon (1-29), neat antiserum, (hu)
- T-4358: Rabbit anti Glucagon (1-29), purified IgG, (hu)
- T-4357: Rabbit anti Glucagon (1-29), diluted antiserum, (hu)

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