



BMA BIOMEDICALS



Peninsula Laboratories

S-1421

Pancreastatin (33-48) (human) / Chromogranin A (286-301) ELISA [UniProt: P10645]

Pancreastatin is a 49 amino acid peptide found in many cells of the neuroendocrine system. It is produced from the proteolytic cleavage of its precursor, Chromogranin A [Chromogranin A (240-288)]. It is localized to insulin-containing beta cells, glucagon-containing alpha cells, and somatostatin-containing D cells of the pancreatic islet. Pancreastatin inhibits release of somatostatin upon glucose stimulation and it may also control carbohydrate metabolism and hyperglycemia.

This ELISA was developed with serum from rabbits immunized with Pancreastatin (33-48) / Chromogranin-A (286-301) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

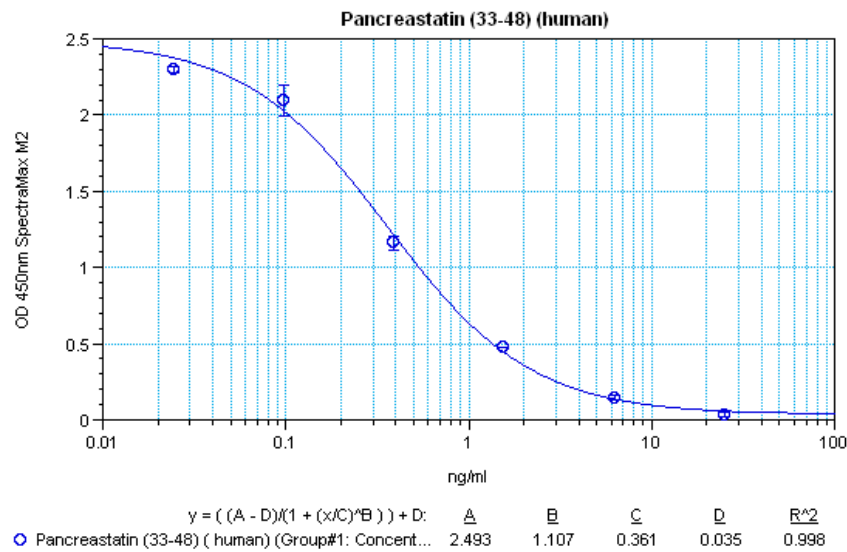
Lot number:	A17360
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Formulated for extracted samples (EIAH type).
Shelf-life:	One year from production date. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only. Please see www.bma.ch for protocols and general information.
Range:	0 - 25ng/ml
Average IC50:	0.37ng/ml
Immunogen:	Synthetic peptide H-Glu-Glu-Glu-Glu-Glu-Met-Ala-Val-Val-Pro-Gln-Gly-Leu-Phe-Arg-Gly-NH ₂ coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
Pancreastatin (33-48)/Chromogranin-A (286-301) (human)	100
Pancreastatin (1-49) (porcine)	100
Amylin (free acid) (human)	0
Glucagon (1-29) (human, bovine, porcine)	0
Insulin (human)	0
Pancreatic Polypeptide (human)	0
Chromogranin A (250-301) amide (human)	0
Chromogranin A (264-314) amide (rat)	0

Cross-Reactivity data is taken from Radioimmunoassay applications.

Typical titration curve of Pancreastatin (33-48) / Chromogranin-A (286-301) in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.02 to 25ng/ml
Stock	1000	
S1	25.00	Add 25µl Stock + 975µl diluent
S2	6.25	Add 200µl S1 + 600µl diluent
S3	1.56	Add 200µl S2 + 600µl diluent
S4	0.39	Add 200µl S3 + 600µl diluent
S5	0.10	Add 200µl S4 + 600µl diluent
S6	0.02	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products: T-4264: anti Pancreastatin (33-48), neat antiserum (hu)
 T-4263: anti Pancreastatin (33-48), diluted antiserum (po)
 T-4480: anti Pancreastatin, purified IgG
 T-4481: anti Pancreastatin, neat antiserum (po)
 S-1221: ELISA, high sensitivity for extracted samples

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

S-1421

EIAH – hu

19.10.2020