



BMA BIOMEDICALS



Peninsula Laboratories

S-1186

Amylin (mouse, rat) ELISA [UniProt: P12968, P12969]

Amylin (also known as islet amyloid polypeptide (IAPP)) is a 37-amino acid peptide hormone with a disulfide bridge between cysteine residue 2 and 7. Both the amidated C-terminus and the disulfide bridge are necessary for the full biological activity of Amylin. It is co-secreted with insulin from the pancreatic β -cells and plays an important role in the glycemic control, regulating it by slowing gastric emptying and promoting satiety. It is also involved in bone metabolism, along with the related peptides calcitonin and calcitonin gene related peptide.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A15613
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:	0-10ng/ml
Average IC50:	0.6ng/ml
Immunogen:	Synthetic peptide H-Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Val-Arg-Ser-Ser-Asn-Asn-Leu-Gly-Pro-Val-Leu-Pro-Pro-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH ₂ , (Disulfide bond) coupled to carrier protein.

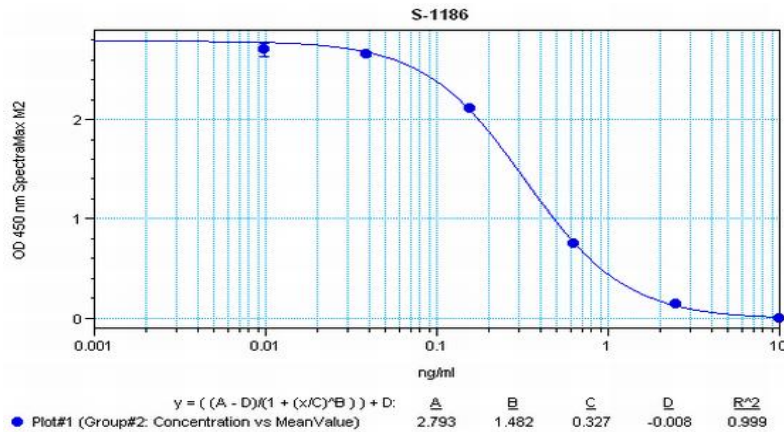
Cross-Reactivity:

PEPTIDE:	%:
Amylin (rat)	100
Amylin (feline)	100
Amylin (human)	10
Amylin (free acid) (human)	0
Insulin (human)	0
Proinsulin (human)	0

Cross-Reactivity (continued):

PEPTIDE:	%:
Glucagon (1-29) (human, bovine, porcine)	0
Somatostatin-28	0
Pancreatic Polypeptide (human)	0
VIP (human, bovine, rat, porcine)	0
NPY (porcine)	0
α-CGRP (human)	<0.01
α-CGRP (rat)	<0.01
β-CGRP (human)	<0.01
β-CGRP (rat)	<0.01

Typical titration curve of Amylin 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-1413: ELISA, extraction-free for rat serum and plasma samples
 T-4146: anti Amylin (ms, rt), neat antiserum, host: rabbit
 T-4144: anti Amylin (ms, rt), diluted antiserum, host: rabbit
 T-4145: anti Amylin (ms, rt), purified IgG, host: rabbit

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.

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EIAH – ms, rt

5.6.2020