



BMA BIOMEDICALS



Peninsula Laboratories

S-1187

Human Amylin ELISA [UniProt: P10997]

Amylin (also known as islet amyloid polypeptide, IAPP) is a 37 amino acid peptide hormone with a disulfide bridge between cysteine residues 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: | A18PO22013 |
| 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: | 0.5ng/ml |
| Immunogen: | Synthetic peptide H-Lys-Cys-Asn-Thr-Ala-Thr-Cys-Ala-Thr-Gln-Arg-Leu-Ala-Asn-Phe-Leu-Val-His-Ser-Ser-Asn-Asn-Phe-Gly-Ala-Ile-Leu-Ser-Ser-Thr-Asn-Val-Gly-Ser-Asn-Thr-Tyr-NH ₂ , (disulfide bond) coupled to carrier protein. |

Cross-Reactivity:

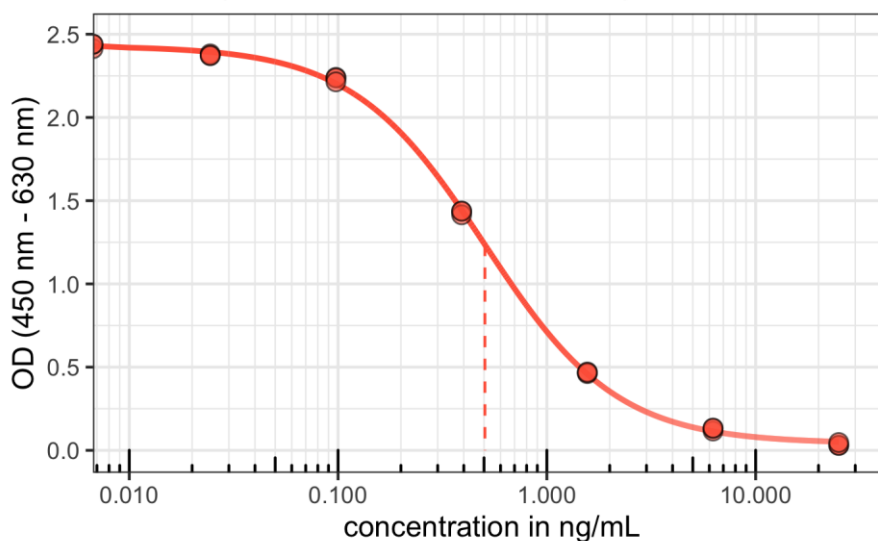
| PEPTIDE: | %: |
|----------------------------|-----------|
| Amylin (free acid) (human) | 100 |
| Amylin (human) | 100 |
| Amylin (rat) | 100 |
| Amylin (feline) | 100 |
| α -CGRP (rat) | 75 |
| α -CGRP (human) | 1 |
| Calcitonin (human) | 0 |

Cross-Reactivity (continued):

| PEPTIDE: | %: |
|--|----|
| NPY (porcine) | 0 |
| Pancreastatin (porcine) | 0 |
| Insulin (human) | 0 |
| Glucagon (1-29) (human, bovine, porcine) | 0 |
| Somatostatin-14 | 0 |
| Pancreatic Polypeptide (human) | 0 |
| Proinsulin (human) | 0 |

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

S-1187 (10 minutes color reaction)



| 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: S-1186: ELISA, high sensitivity for extracted mouse / rat samples
S-1420: ELISA, extraction-free for human serum and plasma samples
T-4146: anti mouse / rat Amylin, neat antiserum
T-4157: anti human Amylin, purified rabbit IgG

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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