



BMA BIOMEDICALS



Peninsula Laboratories

Peptide YY (human) ELISA

Peptide YY (PYY), also known as peptide tyrosine tyrosine, is a 36-amino acid peptide related to the pancreatic polypeptide (PP) family, with 18 of its 36 amino acids located in the same positions as pancreatic polypeptide. The two major forms of peptide YY are PYY₁₋₃₆ and PYY₃₋₃₆, which have PP fold structural motifs. PYY is released from cells in the ileum and colon in response to feeding, and exerts its action through neuropeptide Y (NPY) receptors. It has been shown to reduce appetite and may suppress pancreatic secretion.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1272 (Lot A18053)
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for human serum or plasma (ELIAS 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 - 25 ng/ml
Average IC₅₀:	0.6 ng/ml
Immunogen:	Synthetic peptide H-Tyr-Pro-Ile-Lys-Pro-Glu-Ala-Pro-Gly-Glu-Asp-Ala-Ser-Pro-Glu-Glu-Leu-Asn-Arg-Tyr-Tyr-Ala-Ser-Leu-Arg-His-Tyr-Leu-Asn-Leu-Val-Thr-Arg-Gln-Arg-Tyr-NH ₂ coupled to carrier protein.

Protein database: [human-P10082](#)

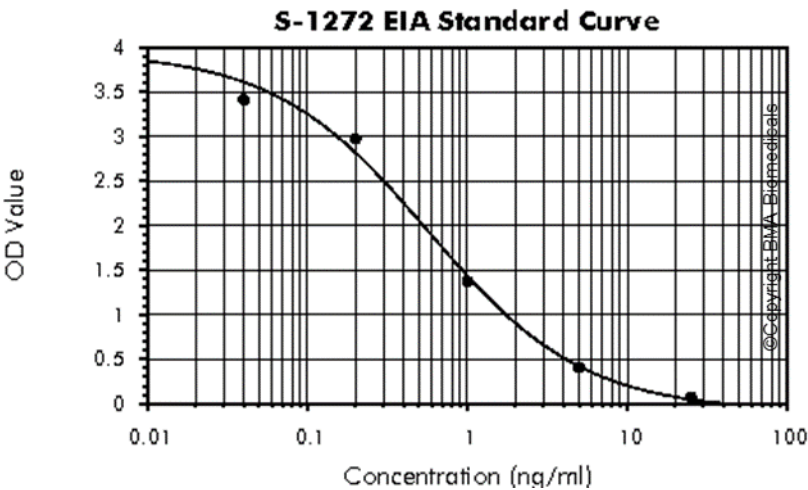
Cross-Reactivity:

PEPTIDE	%
Peptide YY (human)	100
Peptide YY (3-36) (human)	100
Peptide YY (canine, mouse, porcine, rat)	100
Peptide YY (13-36) (canine, mouse, porcine, rat)	100
Amylin (human)	0
Glucagon (1-29) (human, bovine, porcine)	0
Insulin (human)	0
Neuropeptide Y (human, rat)	0

Cross-Reactivity:

PEPTIDE	%
Neuropeptide Y (porcine)	0
Pancreatic Polypeptide (human)	0
Substance P	0

Typical titration curve of Peptide YY 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-4091: Rabbit anti Peptide YY, neat antiserum, (hu)
- T-4090: Rabbit anti Peptide YY, diluted antiserum, (hu)
- S-1151: ELISA, high sensitivity for extracted samples, (hu)
- T-4113: Rabbit anti Peptide YY, purified IgG, (hu)

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