



BMA BIOMEDICALS



Peninsula Laboratories

Gastrin Releasing Peptide (GRP) (porcine) ELISA

Gastrin-releasing peptide (GRP) is a neuropeptide that has been implicated in a number of physiological and pathophysiological processes. Most notably, GRP stimulates the release of gastrin from the G cells of the stomach. It is also known to be a regulatory human peptide that elicits gastrin release and regulates gastric acid secretion and enteric motor function. The post-ganglionic fibers of the vagus nerve that innervate the G cells of the stomach release GRP, which stimulates the G cells to release gastrin. GRP is also involved in the biology of the circadian system, playing a role in the signaling of light to the master circadian oscillator in the suprachiasmatic nuclei of the hypothalamus.

This ELISA was developed with serum from rabbits immunized with Gastrin-releasing peptide coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1405 (Lot A06244)
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Formulated for extracted samples (EIAH 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 appropriately extracted samples, following protocol III. Please see www.bma.ch for protocols and general information.
Range:	0 - 25 ng/ml
Average IC₅₀:	0.5 ng/ml
Immunogen:	Synthetic peptide H-Ala-Pro-Val-Ser-Val-Gly-Gly-Gly-Thr-Val-Leu-Ala-Lys-Met-Tyr-Pro-Arg-Gly-Asn-His-Trp-Ala-Val-Gly-His-Leu-Met-NH ₂ coupled to carrier protein.

Protein database: [porcine-P63153](#)

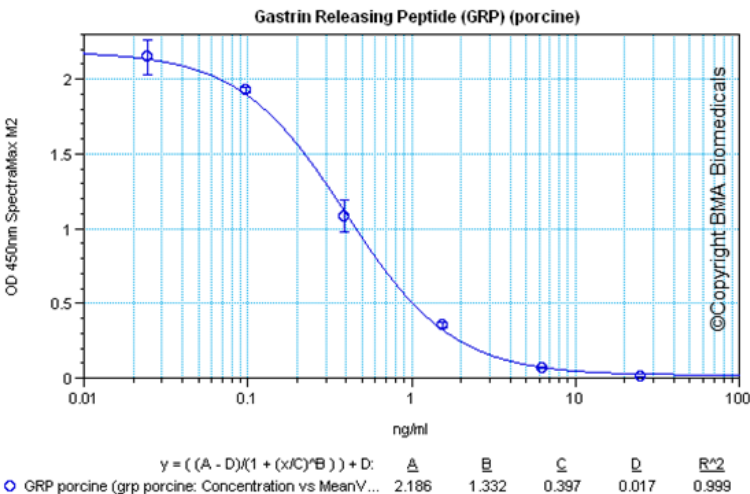
Cross-Reactivity:

PEPTIDE	%
GRP (porcine)	100
GRP (14-27) (human, porcine, canine)	100
Bombesin	100
GRP (human)	100
Ac-GRP (20-27) (human, porcine, canine)	76
VIP (human, bovine, ovine, rat)	<0.001
GIP (human)	<0.001
GRP (1-16) (porcine)	0

Cross-Reactivity:

PEPTIDE	%
Substance P	0
Gastrin I (chicken)	0

Typical titration curve of GRP 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-4350: Rabbit anti GRP, purified IgG, (hu)
- T-4351: Rabbit anti GRP, neat antiserum, (hu)
- T-4353: Rabbit anti GRP, diluted antiserum, (po)
- T-4354: Rabbit anti GRP, purified IgG, (po)
- T-4355: Rabbit anti GRP, neat antiserum, (po)

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