



BMA BIOMEDICALS



Peninsula Laboratories

α -Calcitonin Gene-Related Peptide (human) ELISA

α -Calcitonin Gene-Related Peptide (α -CGRP) is a regulatory neuropeptide of 37 amino acids. It is formed by alternative splicing of the calcitonin/CGRP gene located on chromosome 11. α -CGRP is widely distributed in both the peripheral and central nervous system, predominantly in cell bodies of the dorsal root ganglion (DRG), and it is known to be a potent vasodilator with inotropic and chronotropic effects.

This ELISA was developed with serum from rabbits immunized with α -Calcitonin Gene-Related Peptide coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1199 (Lot A17370)
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 - 10 ng/ml
Average IC₅₀:	0.35 ng/ml
Immunogen:	Synthetic peptide H-Ala-Cys-Asp-Thr-Ala-Thr-Cys-Val-Thr-His-Arg-Leu-Ala-Gly-Leu-Leu-Ser-Arg-Ser-Gly-Gly-Val-Val-Lys-Asn-Asn-Phe-Val-Pro-Thr-Asn-Val-Gly-Ser-Lys-Ala-Phe-NH ₂ , (Disulfide bond) coupled to carrier protein.
Protein database:	human-P06881

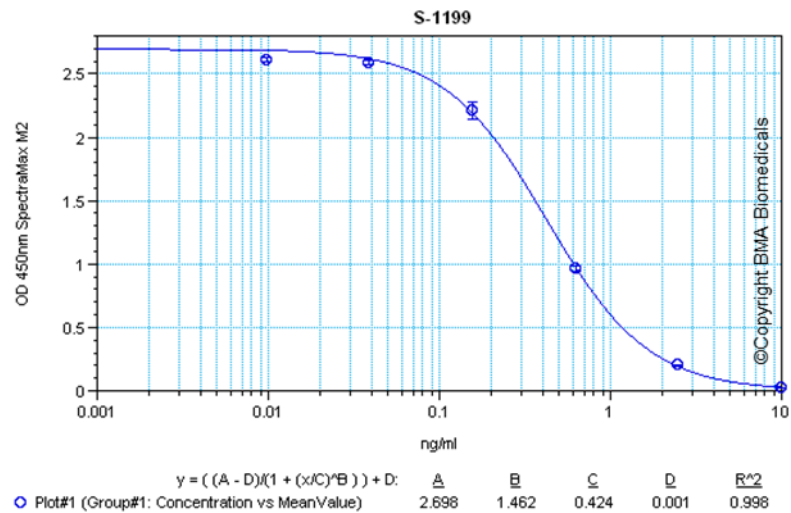
Cross-Reactivity:

PEPTIDE	%
α -CGRP (human)	100
α -CGRP (8-37) (human)	100
CGRP (chicken)	100
α -CGRP (rat)	100
β -CGRP (human)	100
β -CGRP (rat)	100
Calcitonin (human)	0
Calcitonin C-Terminal Adjacent Peptide (rat)	0
Amylin (free acid) (human)	0
Amylin (human)	0

Cross-Reactivity:

PEPTIDE	%
Amylin (free acid) (rat)	0
Substance P	0

Typical titration curve of α-CGRP 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-1198: ELISA, extraction-free for human serum and plasma samples
- S-1200: ELISA, high sensitivity for extracted samples (β-CGRP, hu)
- T-4238: Rabbit anti α-CGRP, purified IgG, (hu)
- T-4239: Rabbit anti α-CGRP, neat antiserum, (hu)
- T-5027: Rabbit anti α-CGRP, neat antiserum, (hu)
- T:4537: Rabbit anti α-CGRP, diluted antiserum, (hu)

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