



BMA BIOMEDICALS



Peninsula Laboratories

S-1198

**α -Calcitonin Gene-Related Peptide (human) ELISA
[UniProt: P06881]**

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

| | |
|----------------------|---|
| Lot number: | A17825 |
| Host species: | Rabbit IgG |
| Quantity: | 96 tests |
| Format: | Extraction-free kit for human serum or plasma (EIAS 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 samples of human origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see www.bma.ch for protocols and general information. |
| Range: | 0 - 25ng/ml |
| Average IC50: | 0.6ng/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. |

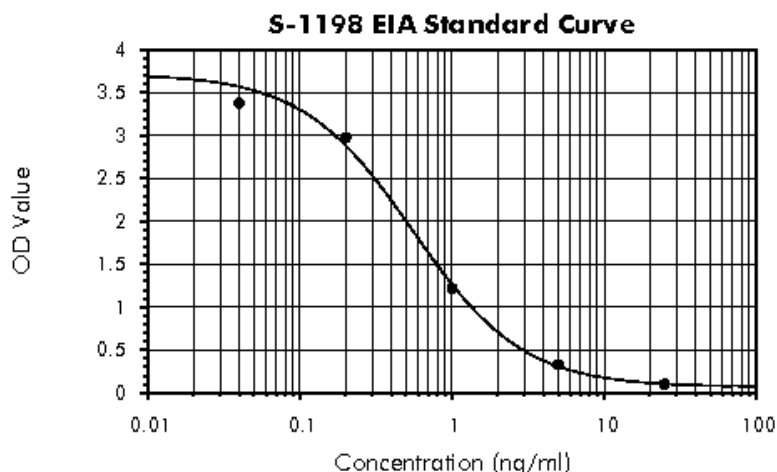
Cross-Reactivity:

| 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 |

Cross-Reactivity (continued):

| PEPTIDE: | %: |
|--|----|
| Calcitonin C-Terminal Adjacent Peptide (rat) | 0 |
| Amylin (free acid) (human) | 0 |
| Amylin (human) | 0 |
| 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: 0.02 to 25ng/ml |
| Stock | 1000 | |
| S1 | 25.00 | Add 25 μ l Stock + 975 μ l diluent |
| S2 | 6.25 | Add 200 μ l S1 + 600 μ l diluent |
| S3 | 1.56 | Add 200 μ l S2 + 600 μ l diluent |
| S4 | 0.39 | Add 200 μ l S3 + 600 μ l diluent |
| S5 | 0.10 | Add 200 μ l S4 + 600 μ l diluent |
| S6 | 0.02 | Add 200 μ l S5 + 600 μ l diluent |
| S0 | 0.00 | 500 μ l diluent |

Related Products: S-1199: α -CGRP (hu) ELISA, high sensitivity, for extracted samples
S-1200: β -CGRP (hu) ELISA, high sensitivity, for extracted samples
T-4238: anti α -CGRP (hu), purified IgG, host: rabbit
T-4239: anti α -CGRP (hu) neat antiserum, host: rabbit
T-5027: anti α -CGRP (hu) neat antiserum, host: guinea pig
also available: mouse/rat α -CGRP specific

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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EIAS – hu

03.6.2020