BMA BIOMEDICALS

Peninsula Laboratories

Calcitonin (salmon I) ELISA

Calcitonin is a 32 amino acid peptide hormone that defines the calcitonin-like protein family. It is formed by the proteolytic cleavage of a larger prepropeptide, which is the product of the CALC1 gene and secreted by parafollicular cells of the thyroid gland in humans, and in the ultimopharyngeal body in animals. The hormone participates in calcium and phosphorus metabolism by reducing blood calcium and counteracts the effects of parathyroid hormone and Vitamin D3.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number: S-1155 (Lot A17899)

Host species: Rabbit IgG

Quantity: 96 tests

Format: Extraction-free kit for rat serum or plasma (EIAS 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 rat origin, following protocol V.

Please see **www.bma.ch** for protocols and general information.

Range: 0 - 25 ng/ml

Average IC_{50}: 0.6 ng/ml

Immunogen: Synthetic peptide H-Cys-Ser-Asn-Leu-Ser-Thr-Cys-Val-Leu-Gly-Lys-Leu-Ser-Gln-Glu-Leu-His-Lys-Leu-Gln-Thr-Tyr-Pro-Arg-Thr-Asn-Thr-Gly-Ser-Gly-Thr-Pro-NH_2, (Disulfide bond) coupled to carrier protein.

Protein database: salmon-P01263

Cross-Reactivity:

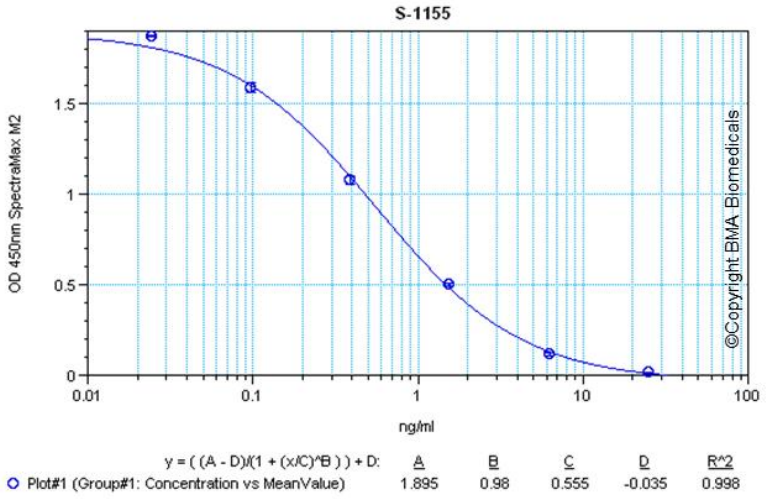
PEPTIDE	%
Calcitonin (salmon I)	100
Calcitonin (eel)	100
[Asu[1,7]-Calcitonin eel)	100
Calcitonin (chicken)	100
Calcitonin (human)	0
Calcitonin (rat)	0
Calcitonin C-Terminal Flanking Peptide (human)	0
Calcitonin C-Terminal Adjacent Peptide (rat)	0
Amylin (free acid) (human)	0

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Cross-Reactivity:

PEPTIDE	%
Amylin (free acid) (rat)	0
α-CGRP (human)	0
pTH Related Protein (1-34) (human)	0

Typical titration curve of Calcitonin 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:

S-1154: ELISA, Extraction-free for human serum and plasma samples
S-1166: ELISA, high sensitivity for extracted samples, (sal I)
T-4026: Rabbit anti Calcitonin, purified IgG, (sal I)
T-4027: Rabbit anti Calcitonin, neat serum, (sal I)
T-4025: Rabbit anti Calcitonin, diluted antiserum, (sal I)

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

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