



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1470

### Calcitonin (salmon I) ELISA [UniProt: P01263]

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.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A17335
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Extraction-free kit for mouse serum or plasma (EIAS type).
<b>Shelf-life:</b>	One year from production date. Store refrigerated at 4° - 8°C.
<b>Applications:</b>	This ELISA has been validated with the included reagents. It is intended to be used with samples of mouse origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Range:</b>	0-25ng/ml
<b>Average IC50:</b>	0.85ng/ml
<b>Immunogen:</b>	Synthetic peptide coupled to carrier protein.

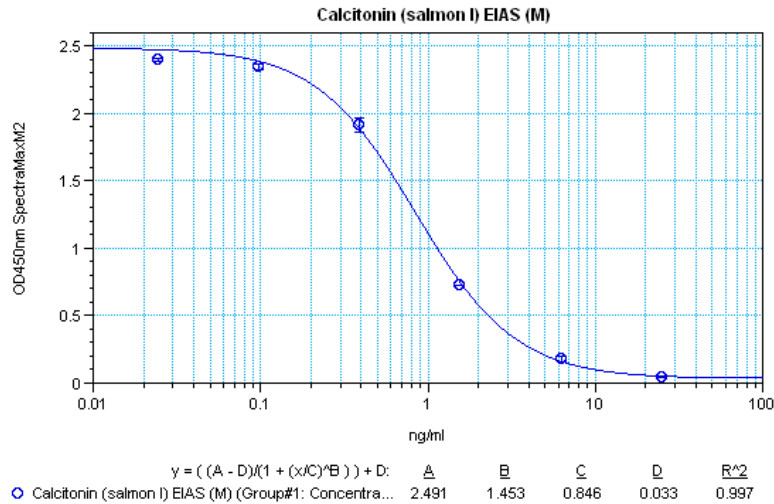
#### Cross-Reactivity:

PEPTIDE:	%:
Calcitonin (salmon I)	100
Calcitonin (eel)	100
[Asu <sup>1,7</sup> ]-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

**Cross-Reactivity (continued):**

<b>PEPTIDE:</b>	<b>%:</b>
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
<b>Stock</b>	1000	
<b>S1</b>	25.00	Add 25µl Stock + 975µl diluent
<b>S2</b>	6.25	Add 200µl S1 + 600µl diluent
<b>S3</b>	1.56	Add 200µl S2 + 600µl diluent
<b>S4</b>	0.39	Add 200µl S3 + 600µl diluent
<b>S5</b>	0.10	Add 200µl S4 + 600µl diluent
<b>S6</b>	0.02	Add 200µl S5 + 600µl diluent
<b>S0</b>	0.00	500µl diluent

Related Products: T-4026: anti Calcitonin (sal I), purified IgG  
 S-1166: ELISA, high sensitivity for extracted samples (sal I)  
 T-4027: anti Calcitonin (sal I), neat serum  
 T-4025: anti Calcitonin (sal I), diluted antiserum

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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