



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1169

### **Corticotropin-Releasing Factor (CRF) (human, mouse, rat) ELISA [UniProt: P06850, Q8CIT0, P01143]**

Corticotropin-Releasing Factor (CRF, also known as Corticoliberin) is a 41 amino acid peptide hormone derived from the 196-amino acid preprohormone. It is secreted in the hypothalamus in response to stress, and stimulates both the synthesis and the secretion of adrenocorticotrophic hormone (ACTH). CRF is also synthesized in peripheral tissues and placenta and it is known to suppress appetite and increase subjective feelings of anxiety.

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

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#### **TECHNICAL AND ANALYTICAL CHARACTERISTICS**

<b>Lot number:</b>	A18PO22146
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Formulated for extracted samples (EIAH 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 appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Range:</b>	0-10ng/ml
<b>Average IC50:</b>	0.58ng/ml
<b>Immunogen:</b>	Synthetic peptide H-Ser-Glu-Glu-Pro-Pro-Ile-Ser-Leu-Asp-Leu-Thr-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Met-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-Ala-His-Ser-Asn-Arg-Lys-Leu-Met-Glu-Ile-Ile-NH <sub>2</sub> coupled to carrier protein.

#### **Cross-Reactivity:**

<b>PEPTIDE:</b>	<b>%:</b>
CRF (human, mouse, rat)	100
CRF (bovine)	0
CRF (ovine)	0
Sauvagine (frog)	0
Prepro CRF (125-151) (human)	0
PACAP-38 (human, mouse, ovine, porcine, rat)	0
LH-RH	0
ACTH (1-39) (human)	0

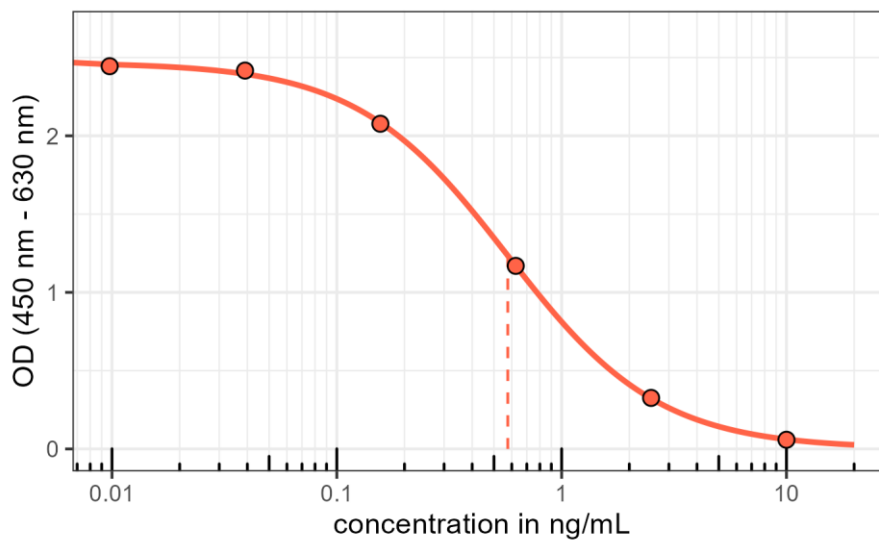
## Cross-Reactivity (continued):

**PEPTIDE:**  
(Arg<sup>8</sup>)-Vasopressin  
BNP-45 (rat)

%.  
0  
0

Typical titration curve of CRF in a competitive ELISA with this antibody:

S-1169 (10 minutes color reaction)



Suggested Preparation of Standards		
	ng/ml	Range: 0.01 to 10ng/ml
<b>Stock</b>	1000	
<b>S1</b>	10.00	Add 10µl Stock + 990µl diluent
<b>S2</b>	2.50	Add 100µl S1 + 300µl diluent
<b>S3</b>	0.63	Add 100µl S2 + 300µl diluent
<b>S4</b>	0.16	Add 100µl S3 + 300µl diluent
<b>S5</b>	0.04	Add 100µl S4 + 300µl diluent
<b>S6</b>	0.01	Add 100µl S5 + 300µl diluent
<b>S0</b>	0.00	300µl diluent

Related Products: T-4035: Rabbit anti CRF, diluted antiserum  
T-4037: Rabbit anti CRF, neat antiserum  
S-1181: ELISA, extraction-free for serum and plasma samples

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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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