



BMA BIOMEDICALS



Peninsula Laboratories

β -Endorphin (human) ELISA

β -Endorphin is a 31 amino acid endogenous opioid neuropeptide that is produced in certain neurons within both the central and the peripheral nervous system. It is known to be one of the three endorphins that are produced in humans, together with α -Endorphin and γ -Endorphin, and it primarily acts in the body to reduce stress and maintain homeostasis.

This ELISA was developed with serum from rabbits immunized with β -Endorphin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1134 (Lot A19PO23039)
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:	0.40 ng/ml
Immunogen:	Synthetic peptide H-Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-Tyr-Lys-Lys-Gly-Glu-OH coupled to carrier protein.

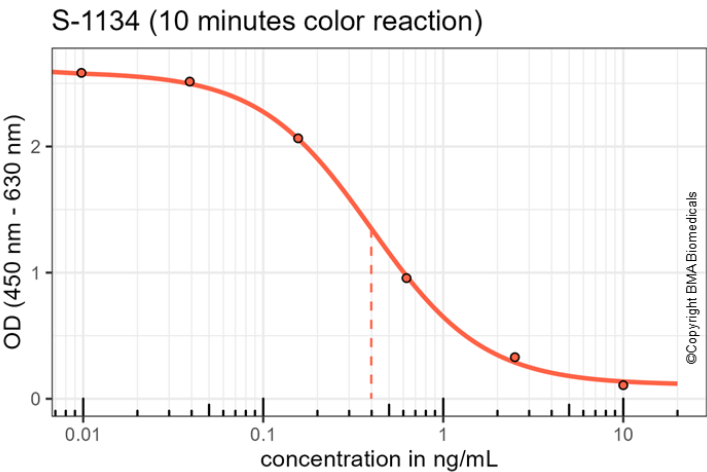
Protein database: [human-P01189](#)

Cross-Reactivity:

PEPTIDE	%
β -Endorphin (human)	100
β -Endorphin (equine)	100
β -Endorphin (porcine)	100
β -Lipotropin (human)	100
β -Endorphin (1-27) (human)	92
β -Endorphin (rat)	80
Ac- β -Endorphin (human)	70
Ac- β -Endorphin (1-27) (human)	50
β -Endorphin (6-31) (human)	43
β -Endorphin (camel, bovine, mouse, ovine)	39

Cross-Reactivity:	
PEPTIDE	%
β-Endorphin (1-26) (human)	37
α-Endorphin	0
Ac-β-Endorphin (1-26) (human)	30
γ-Endorphin	0
Met-Enkephalin	0
α-MSH	0
ACTH (1-39) (human)	0
Dynorphin A	0

Typical titration curve of β-Endorphin 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-1170: ELISA, high sensitivity for extracted samples, (rat)
- S-1240: ELISA, extraction-free for human serum and plasma samples
- S-1264: ELISA, extraction-free for rat serum and plasma samples
- T-4041: Rabbit anti β-Endorphin, neat antiserum (human)
- T-4044: Rabbit anti β-Endorphin, purified IgG (rat)

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