



BMA BIOMEDICALS



Peninsula Laboratories

S-1264

β-Endorphin (rat) 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.

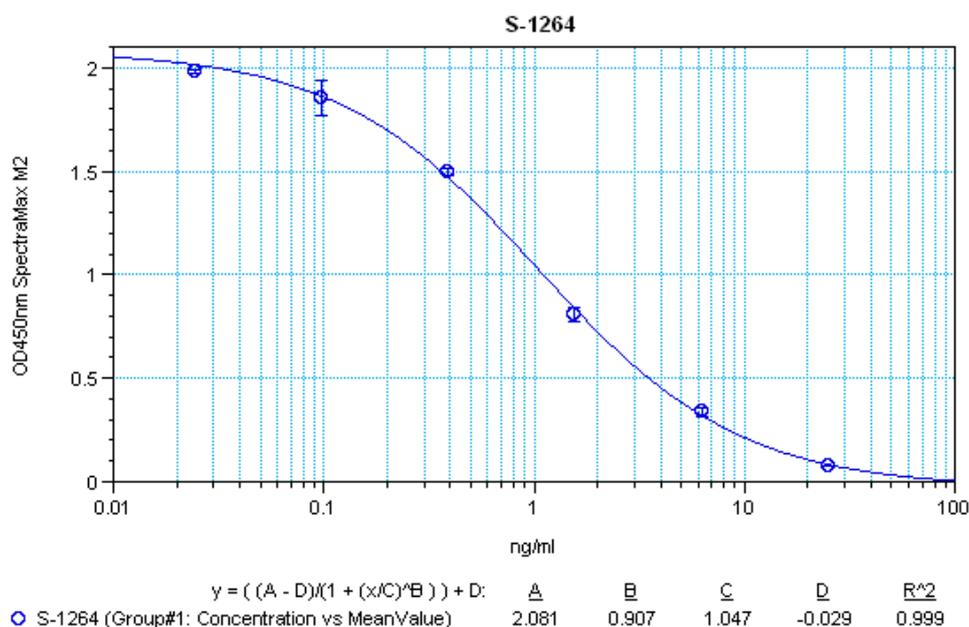
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A16738
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for rat 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 rat 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:	0.8ng/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-Val-His-Lys-Lys-Gly-Gln-OH coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
β-Endorphin (bovine, camel, mouse, ovine, rat)	100
β-Endorphin (human)	100
β-Endorphin (equine)	100
β-Endorphin (porcine)	100
β-Lipotropin (human)	100
γ-Endorphin	0
α-Endorphin	0
Met-Enkephalin	0
α-MSH	0
ACTH (1-39) (human)	0
Dynorphin A (1-13) (porcine)	0

Typical titration curve of β -Endorphin 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-1170: ELISA, high sensitivity for extracted samples (rat)
- S-1134: ELISA, high sensitivity for extracted samples (human)
- S-1240: ELISA, extraction-free for human serum and plasma samples
- T-4040: purified IgG (anti human)
- T-4041: neat antiserum (anti human)
- T-4044: purified IgG (anti rat)
- T-4045: neat antiserum (anti rat)

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.