



BMA BIOMEDICALS



Peninsula Laboratories

S-1246

Endomorphin-2 ELISA

Endomorphin-2 (EM-2) is an endogenous opioid peptide and one of the two endomorphins. It is highly selective agonist of the μ -opioid receptor, and along with endomorphin-1 (EM-1), has been proposed to be the actual endogenous ligand of this receptor. Like EM-1, EM-2 produces analgesia in animals, but whereas EM-1 is more prevalent in the brain, EM-2 is more prevalent in the spinal cord. In addition, the action of EM-2 differs from that of EM-1 somewhat, because EM-2 additionally induces the release of dynorphin A and [Met]enkephalin in the spinal cord and brain by an unknown mechanism, which in turn go on to activate the κ - and δ -opioid receptors, respectively, and a portion of the analgesic effects of EM-2 is dependent on this action.

This ELISA was developed with serum from rabbits immunized with Endomorphin-2 coupled to a carrier protein.

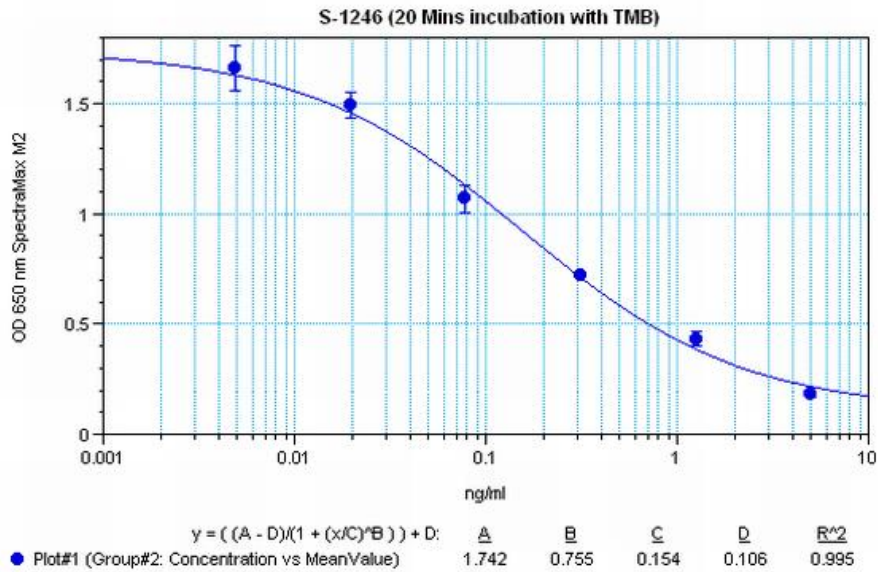
TECHNICAL AND ANALYTICAL CHARACTERISTICS

- Lot number:** A14362
Host species: Rabbit IgG
Quantity: 96 tests
Format: Formulated for extracted samples (EIAH 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 appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only.
Please see www.bma.ch for protocols and general information.
Range: 0-5ng/ml
Average IC50: 0.1ng/ml
Immunogen: Synthetic peptide H-Tyr-Pro-Phe-Phe-NH₂ coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
Endomorphin-2	100
Endomorphin-1	0
β -Casomorphin (1-4) amide (bovine)	0
α -Endorphin	0
β -Endorphin	0
Leu-Enkephalin	0
Met-Enkephalin	0
MSH-Release Inhibiting Factor	0

Typical titration curve of Endomorphin-2 in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.00 to 5ng/ml
Stock	1000	
S1	5.00	Add 5µl Stock + 995µl diluent
S2	1.25	Add 200µl S1 + 600µl diluent
S3	0.31	Add 200µl S2 + 600µl diluent
S4	0.08	Add 200µl S3 + 600µl diluent
S5	0.02	Add 200µl S4 + 600µl diluent
S6	0.00	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

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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EIAH

1.3.2021