BMA BIOMEDICALS

Peninsula Laboratories

(Des-Gly^{10}, D-Leu^{6}, Pro-NHEt^{9})-LHRH (Leuprolide) ELISA

Leuprolide is a synthetic nonapeptide analogue of gonadotropin-releasing hormone, used to treat prostate cancer, breast cancer, endometriosis, uterine fibroids, and early puberty. Leuprolide binds to and activates gonadotropin-releasing hormone (GnRH) receptors. Agonism of GnRH receptors initially result in the stimulation of luteinizing hormone (LH) and follicle-stimulating hormone (FSH) secretion by the anterior pituitary ultimately leading to increased serum estradiol and testosterone levels via the normal physiology of the hypothalamic–pituitary–gonadal axis.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number: S-1159 (Lot A18102)

Host species: Rabbit IgG

Quantity: 96 tests

Format: Extraction-free kit for rat serum or plasma (EIAS 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 samples of rat origin, following protocol V.

Please see **www.bma.ch** for protocols and general information.

Range: 0 - 5 ng/ml

Average IC_{50}: 0.1 ng/ml

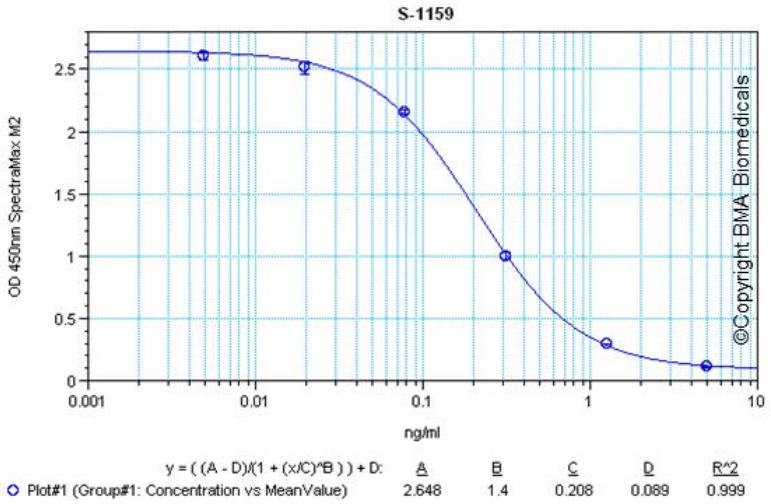
Immunogen: Synthetic peptide Pyr-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHEt coupled to carrier protein.

Cross-Reactivity:

PEPTIDE	%
(Des-Gly^{10}, D-Leu^{6}, Pro-NHEt^{9})-LHRH (Leuprolide)	100
(Des-Gly^{10}, D-Trp^{6}, Pro-NHEt^{9})-LHRH (Deslorelin)	100
LHRH	0
LHRH (lamprey)	0
LHRH (salmon)	0
LHRH (chicken)	0
[D-Ala^{6}]-LHRH	0
[D-Phe^{2}, Pro^{3}, D-Phe^{6}]-LHRH	0
[D-Phe^{1}, D-Phe^{2}, D-Trp$^{3, 6}$]-LHRH	0

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Typical titration curve of Leuprolide 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

Related Products:

S-1144: ELISA, extraction-free for human serum and plasma samples
S-1174: ELISA, high sensitivity for extracted samples
S-1472: ELISA, extraction-free for mouse serum and plasma samples
T-4064: Rabbit anti Leuprolide, neat antiserum
T-4063: Rabbit anti Leuprolide, diluted antiserum

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

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