



BMA BIOMEDICALS



Peninsula Laboratories

S-1174

(Des-Gly¹⁰, D-Leu⁶, Pro-NHEt⁹)-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 results 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

Lot number:	A17832
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:	0-10ng/ml
Average IC50:	0.4ng/ml
Immunogen:	Synthetic peptide Pyr-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHEt coupled to carrier protein.

Cross-Reactivity:

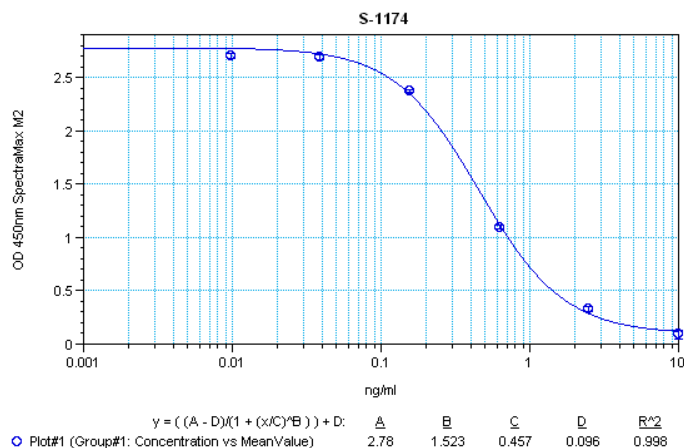
PEPTIDE:	%:
(Des-Gly ¹⁰ , D-Leu ⁶ , Pro-NHEt ⁹)-LHRH (Leuprolide)	100
(Des-Gly ¹⁰ , D-Trp ⁶ , Pro-NHEt ⁹)-LH-RH Ethylamide (Deslorelin)	100
LH-RH	0
LH-RH (lamprey)	0
LH-RH (salmon)	0
LH-RH (chicken)	0
[D-Ala ⁶]-LH-RH	0

Cross-Reactivity (continued):

PEPTIDE:	%:
[D-Phe ² , Pro ³ , D-Phe ⁶]-LH-RH	0
[D-Phe ^{1,2} , D-Trp ^{3,6}]-LH-RH	0

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



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

Related Products:

T-4063: anti Leuprolide, diluted antiserum
 T-4064: anti Leuprolide, neat antiserum
 S-1144: ELISA, extraction-free for human serum samples
 S-1159: ELISA, extraction-free for rat serum samples
 S-1472: ELISA, extraction-free for mouse serum samples

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

19.8.2020