



BMA BIOMEDICALS



Peninsula Laboratories

S-1159

(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:	A18102
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:	0-5ng/ml
Average IC50:	0.1ng/ml
Immunogen:	Synthetic peptide Pyr-His-Trp-Ser-Tyr-D-Leu-Leu-Arg-Pro-NHEt coupled to carrier protein.

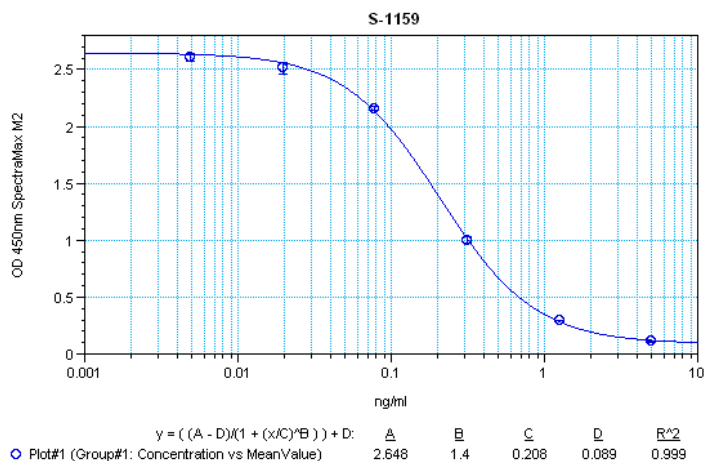
Cross-Reactivity:

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

Cross-Reactivity (continued):

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

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

S-1159

EIAS

19.8.2020