



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1225

### Ghrelin (mouse, rat) ELISA [UniProt: Q9EQX0, Q9QYH7]

Ghrelin is an appetite stimulating peptide hormone secreted by enteroendocrine cells of the gastrointestinal tract (P/D1-type cells in humans), especially the stomach, and circulates in the bloodstream during fasting conditions. It is known to prepare for food intake by increasing gastric motility and gastric acid secretion. Ghrelin has several functions including activation of cells in the anterior pituitary gland and hypothalamic arcuate nucleus that initiate appetite, stimulation of brain structures having a specific receptor – the growth hormone secretagogue receptor 1A (GHSR-1A), and also participation in other regulations such as learning and memory, the sleep-wake cycle, taste sensation, reward behavior, and glucose metabolism.

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

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A16643
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Extraction-free kit for rat serum or plasma (EIAS type).
<b>Shelf-life:</b>	One year from production date. Store refrigerated at 4° - 8°C.
<b>Applications:</b>	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 <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Range:</b>	0-5ng/ml
<b>Average IC50:</b>	0.3ng/ml
<b>Immunogen:</b>	Synthetic peptide H-Gly-Ser-Ser(octanoyl)-Phe-Leu-Ser-Pro-Glu-His-Gln-Arg-Val-Gln-Gln-Arg-Lys-Glu-Ser-Lys-Lys-Pro-Pro-Ala-Lys-Leu-Gln-Pro-Arg-OH coupled to carrier protein.

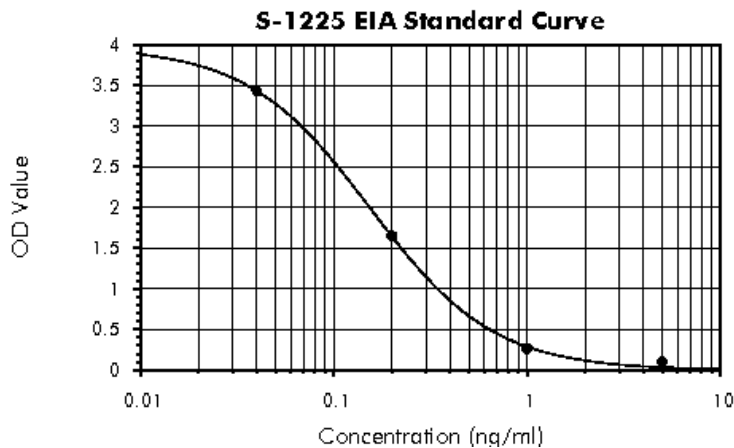
#### Cross-Reactivity:

PEPTIDE:	%:
Ghrelin (mouse, rat)	100
Ghrelin (human)	100
(Des-Octanoyl)-Ghrelin (human)	0
Motilin (canine)	0
GRF (1-44) (human)	0
GRF (1-43) (rat)	0
Orexin A (human, bovine, rat, mouse)	0
Orexin B (human)	0

### Cross-Reactivity (continued):

PEPTIDE:	%:
Orexin B (rat, mouse)	0
Secretin (porcine)	0
Secretin (human)	0
VIP (human, bovine, porcine, rat)	0
Galanin (human)	0
Galanin (rat)	0

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



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

Related Products:

S-1222: ELISA, high sensitivity for extracted samples  
T-4747: Rabbit anti Ghrelin (hu), neat antiserum  
T-4745: Rabbit anti Ghrelin (hu), diluted antiserum  
T-4748: Rabbit anti Ghrelin (ms, rt), diluted antiserum  
T-4750: Rabbit anti Ghrelin (ms, rt), neat antiserum  
T-4846: Rabbit anti Inactive Ghrelin (hu), purified IgG  
T-4746: Rabbit anti Ghrelin (hu), purified IgG  
T-4749: Rabbit anti Ghrelin (ms, rt), purified IgG

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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EIAS

1.3.2021