



BMA BIOMEDICALS



Peninsula Laboratories

S-1165

Substance P ELISA

Substance P is an undecapeptide resulting from the cleavage of Protachykinin-1 (Uniprot P20366) into several biologically active peptides. It is mainly secreted by neurons and is involved in biological processes like nociception and inflammation. Substance P mediates interactions between neurons and immune cells, with nerve-derived substance P modulating immune cell proliferation and cytokine production.

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

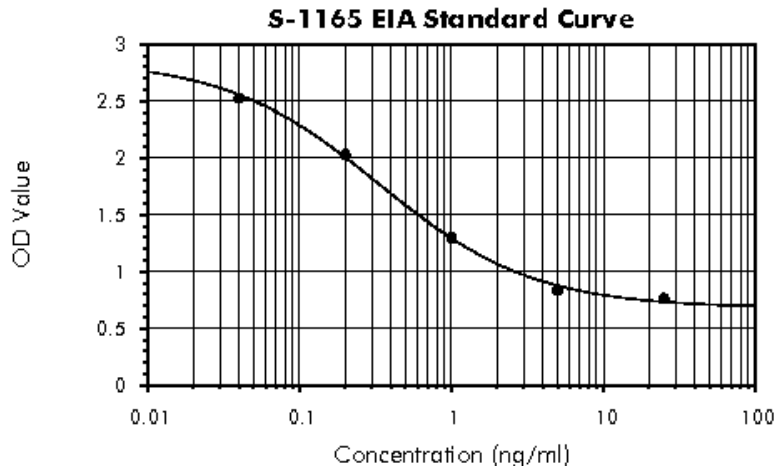
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A17489
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 - 25ng/ml
Average IC50:	0.35ng/ml
Immunogen:	Synthetic peptide H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH ₂ coupled to a carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
Substance P	100
Substance P (2-11)	100
Substance P (3-11)	100
Substance P (4-11)	100
Substance P (5-11)	100
Substance P (6-11)	<5
Substance P (7-11)	<0.01
Neuropeptide K (porcine)	<0.01
Neurokinin A	<0.01
Neurokinin B	0
Endothelin-1 (human, bovine, canine, mouse, porcine, rat)	<0.5
Physalaemin	0

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



Suggested Preparation of Standards		
	ng/ml	Range: 0.02 to 25ng/ml
Stock	1000	
S1	25.00	Add 25µl Stock + 975µl diluent
S2	6.25	Add 200µl S1 + 600µl diluent
S3	1.56	Add 200µl S2 + 600µl diluent
S4	0.39	Add 200µl S3 + 600µl diluent
S5	0.10	Add 200µl S4 + 600µl diluent
S6	0.02	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related Products: S-1165: ELISA, extraction-free for rat samples
 S-1180: ELISA, high sensitivity for extracted samples
 T-4105: diluted rabbit antiserum
 T-4106: purified rabbit IgG
 T-4107 neat rabbit antiserum
 T-5018 diluted guinea pig antiserum
 T-5019 neat guinea pig antiserum

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.