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BMA BIOMEDICALS



Peninsula Laboratories

Substance P ELISA

Substance P is an undecapeptide resulting from the cleavage of Protachykinin-1 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.

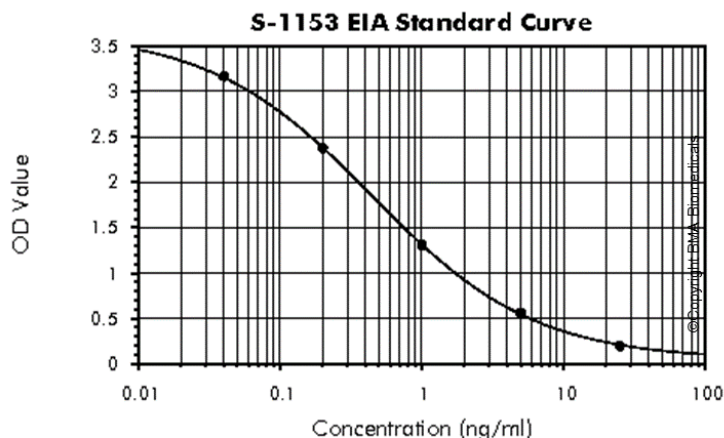
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1153 (Lot A17686)
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for human serum or plasma (ELIAS 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 human origin, following protocol V. Please see www.bma.ch for protocols and general information.
Range:	0 - 25 ng/ml
Average IC₅₀:	0.5 ng/ml
Immunogen:	Synthetic peptide H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH ₂ coupled to carrier protein.
Protein database:	<u>human-P20366</u>

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	

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 serum and plasma samples

S-1180: ELISA, high sensitivity for extracted samples

T-4105: Rabbit anti Somatostatin-14, diluted antiserum, (hu, ms, rt, po, others)

T-4106: Rabbit anti Somatostatin-14, purified IgG, (hu, ms, rt, po, others)

T-4107: Rabbit anti Somatostatin-14 neat antiserum, (hu, ms, rt, po, others)

T-5018: Guinea pig anti Somatostatin-14, diluted antiserum, (hu, ms, rt, po, others)

T-5019: Guinea pig anti Somatostatin-14, neat antiserum, (hu, ms, rt, po, others)

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