



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1153

### 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.

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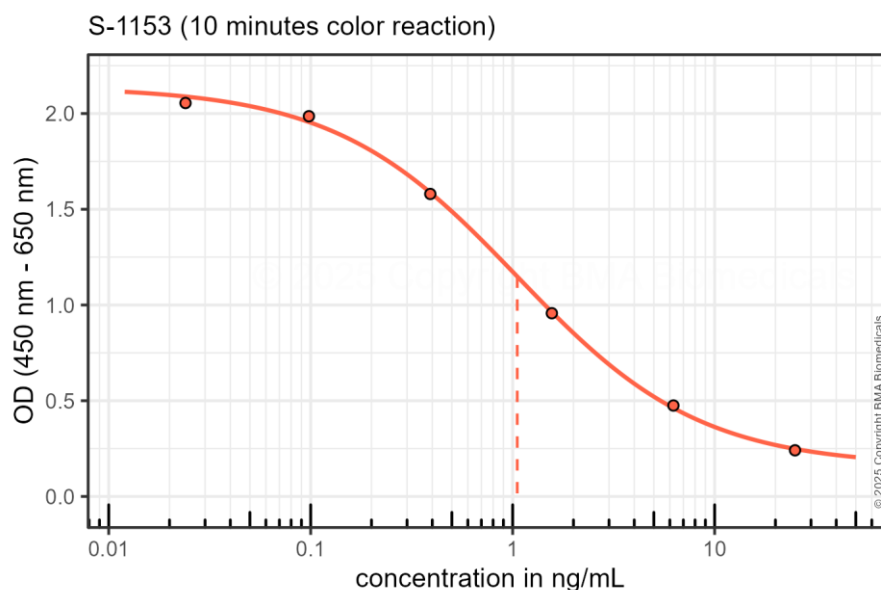
#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A17686
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Extraction-free kit for human 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 human 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 - 25 ng/ml
<b>Average IC50:</b>	1.1 ng/ml
<b>Immunogen:</b>	Synthetic peptide H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH <sub>2</sub> 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
<b>Stock</b>	1000	
<b>S1</b>	25.00	Add 25µl Stock + 975µl diluent
<b>S2</b>	6.25	Add 200µl S1 + 600µl diluent
<b>S3</b>	1.56	Add 200µl S2 + 600µl diluent
<b>S4</b>	0.39	Add 200µl S3 + 600µl diluent
<b>S5</b>	0.10	Add 200µl S4 + 600µl diluent
<b>S6</b>	0.02	Add 200µl S5 + 600µl diluent
<b>S0</b>	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.