



BMA BIOMEDICALS



Peninsula Laboratories

S-1152 Somatostatin-14 ELISA

Somatostatin-14 is a naturally occurring 14-residue peptide. It is found in the gastrointestinal tract and the pancreas, as well as in the central and peripheral nervous systems. Somatostatin-14 is a cyclic oligopeptide, which in mammals is found as a shorter 14-mer and a longer 28-mer. Because of its short biological half-life (few minutes), analogues have been developed for therapeutic application, such as Octreotide.

This ELISA was developed with serum from rabbits immunized with Somatostatin-14 coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A17612
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for human 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 human 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:	0.8ng/ml
Immunogen:	Synthetic peptide H-Ala-Gly-Cys-Lys-Asn-Phe-Phe-Trp-Lys-Thr-Phe-Thr-Ser-Cys-OH (Disulfide bond) coupled to carrier protein.

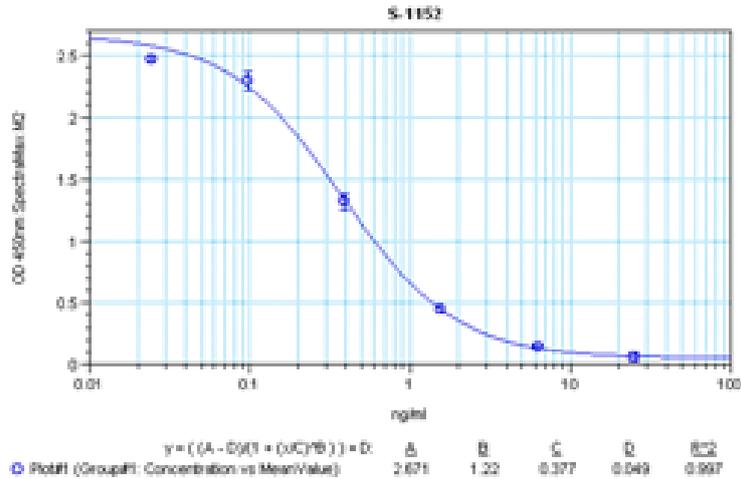
Cross-Reactivity:

PEPTIDE	%
Somatostatin-14	100
Somatostatin-28	100
Somatostatin-25	100
[Des-Ala1]-Somatostatin-14	100
[D-Trp8]-Somatostatin-14	0.05
Prosomatostatin (1-32) (porcine)	0.002
Somatostatin Analog, RC-160	0
H-D-Phe-Cys-Tyr-D-Trp-Orn-Thr-Pen-Thr-NH ₂	0

Cross-Reactivity (continued):

PEPTIDE	%
Substance P	0
NPY (porcine)	0
VIP (human, bovine, rat, porcine)	0
Insulin (human)	0
Glucagon (1-29) (human)	0
Amylin (human)	0

Typical titration curve of Somatostatin-14 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:
- T-4101: diluted antiserum
 - T-4102: purified IgG
 - T-4103: neat antiserum
 - S-1179: ELISA, high sensitivity for extracted samples
 - S-1164: ELISA, extraction-free for rat 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-1152

EIAS-human

22.5.2020