BMA BIOMEDICALS

Peninsula Laboratories

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

Product number: S-1152 (Lot A17612)

Host species: Rabbit IgG

Quantity: 96 tests

Format: Extraction-free kit for human serum or plasma (EIAS 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 IC_{50}: 0.8 ng/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.

Protein database: human-P61278

Cross-Reactivity:

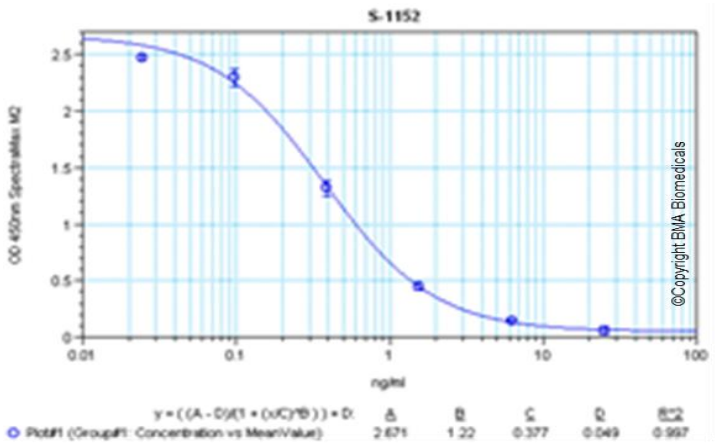
PEPTIDE	%
Somatostatin-14	100
Somatostatin-28	100
Somatostatin-25	100
[Des-Ala1]-Somatostatin-14	100
[D-Trp8]-Somatostatin-14	0.05
Prosomatostatin (1-32) (porcine)	0.002
Somatostatin Analog, RC-160	0
H-D-Phe-Cys-Tyr-D-Trp-Orn-Thr-Pen-Thr-NH_2	0
Substance P	0
NPY (porcine)	0
VIP (human, bovine, rat, porcine)	0
Insulin (human)	0

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Cross-Reactivity:

PEPTIDE	%
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:

S-1179: ELISA, high sensitivity for extracted samples
S-1164: ELISA, extraction-free for rat serum and plasma samples
T-4101: Rabbit anti Somatostatin-14, diluted antiserum, (hu and others)
T-4102: Rabbit anti Somatostatin-14, purified IgG, (hu and others)
T-4103: Rabbit anti Somatostatin-14, neat antiserum, (hu and others)

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

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