

Human SPINT1/HAI-1 ELISA Kit | SPINT1 elisa kit

Human SPINT1/HAI-1 Quick ELISA Kit

CATALOG #
AAA125872

REACTIVITY
Human

PRODUCT SYNONYMS

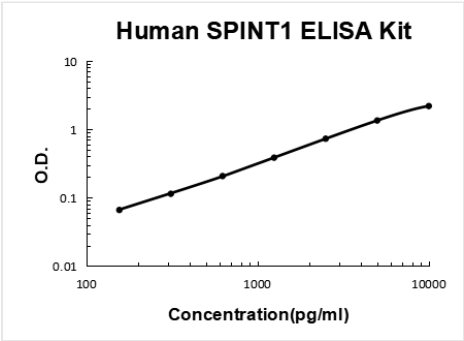
SPINT1/HAI-1; Human SPINT1/HAI-1 Quick ELISA Kit; HAI-1/HGFA Inhibitor 1[HAI; HAI1; HAI-1; hepatocyte growth factor activator inhibitor 1; Hepatocyte growth factor activator inhibitor type 1; kunitz-type protease inhibitor 1; MANSC2; serine peptidase inhibitor; Kunitz type 1; serine protease inhibitor; SPINT1; SPINT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human SPINT1
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum and plasma (heparin)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<15pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.036 0.102 0.150 0.243 0.421 0.765 1.383 2.228
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 211 1855 3887 Standard deviation 13.5 116.87 264.32 CV(%) 6.4% 6.3% 6.8%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 234 1852 3784 Standard deviation 17.55 120.38 298.94 CV(%) 7.5% 6.5% 7.9%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 211 244 208 233 224 12.32 5.5% Sample 2: 1855 1675 1694 1706 1733 39.85 2.3% Sample 3: 3887 4423 4263 4699 4318 250.44 5.8% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: NS0; Immunogen sequence: G36-L529
Anticoagulant	heparin
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human SPINT1/HAI-1 with <15pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human SPINT1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human SPINT1 in cell culture supernatants, serum and plasma (heparin). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human SPINT1 with immunogen: Expression system for standard: NS0; Immunogen sequence: G36-L529. To measure Human SPINT1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human SPINT1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human SPINT1 in the sample.
Assay Procedure Step 1	10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml, 156.25pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for SPINT1 elisa kit	Kunitz-type protease inhibitor 1 is an enzyme that in humans is encoded by the SPINT1 gene. It is a member of the Kunitz family of serine protease inhibitors. The SPINT1 gene encodes an inhibitor of hepatocyte growth factor activator (HGFAC) and matriptase and is involved in degradation of the extracellular matrix. SPINT1 is produced as an active membrane-associated protein and is proteolytically cleaved and secreted. Alternative splicing results in multiple variants encoding different isoforms.
Product Categories/Family for SPINT1 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	74027265
NCBI GeneID	6692
NCBI Accession #	NP_001027539.1
NCBI GenBank Nucleotide #	NM_001032367.1
UniProt Accession #	O43278; Q7Z7D2
Molecular Weight	56,885 Da
NCBI Official Full Name	kunitz-type protease inhibitor 1 isoform 2

NCBI Official Synonym Full Names	serine peptidase inhibitor, Kunitz type 1
NCBI Official Symbol	SPINT1
NCBI Official Synonym Symbols	HAI; HAI1; MANSC2
NCBI Protein Information	kunitz-type protease inhibitor 1
UniProt Protein Name	Kunitz-type protease inhibitor 1
UniProt Gene Name	SPINT1
UniProt Synonym Gene Names	HAI1; HAI-1
UniProt Entry Name	SPIT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/spint1-hai-1/125872>