

Human Leukocyte Elastase Inhibitor (SERPINB1) ELISA Kit | LEI elisa kit

Human Leukocyte Elastase Inhibitor (SERPINB1) ELISA Kit

CATALOG #
AAA330909

REACTIVITY
Human

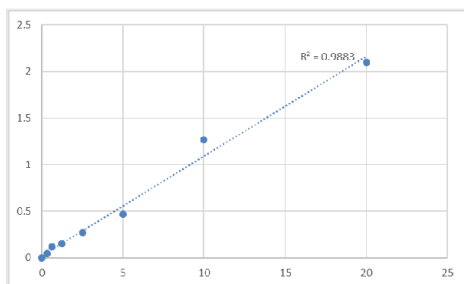
PRODUCT SYNONYMS

Leukocyte Elastase Inhibitor (SERPINB1); Human Leukocyte Elastase Inhibitor (SERPINB1) ELISA Kit; SERPINB1; EI; ELANH2; M/NEI; MNEI; PI2; anti-elastase; protease inhibitor 2 (anti-elastase); monocyte/neutrophil derived; serine (or cysteine) proteinase inhibitor; clade B (ovalbumin); member 1; LEI elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Leukocyte elastase inhibitor (SERPINB1) ELISA Kit has high sensitivity and excellent specificity for detection of Human SERPINB1. No significant cross-reactivity or interference between Human SERPINB1 and analogues was observed.
Sequence Length	379
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Leukocyte elastase inhibitor (SERPINB1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for LEI elisa kit	Description: This Human Leukocyte elastase inhibitor (SERPINB1) ELISA Kit employs a two-site sandwich ELISA to quantitate SERPINB1 in samples. An antibody specific for SERPINB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SERPINB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SERPINB1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SERPINB1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Monocyte/neutrophil elastase inhibitor (EI) is a protein of approximately 42,000 Mr with serpin-like functional properties. Remold-O'Donnell et al. (1992) cloned EI cDNA and identified 3 EI mRNA species of 1.5, 1.9, and 2.6 kb in monocyte-like cells and no hybridizing mRNA in lymphoblastoid cells lacking detectable EI enzymatic activity. The cDNA open reading frame encoded a 379-amino acid protein. Its sequence established EI as a member of the serpin superfamily. Sequence alignment indicated that the reactive center P1 residue is cys-344, consistent with abrogation of elastase inhibitory activity by iodoacetamide and making EI a naturally occurring cys-serpin. Other elastase inhibitors include alpha-1-antitrypsin (PI) and secretory leukocyte protease inhibitor (SLPI).
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	13489087
NCBI GeneID	1992
NCBI Accession #	NP_109591.1
NCBI GenBank Nucleotide #	NP_109591.1
UniProt Accession #	P30740
NCBI Official Full Name	leukocyte elastase inhibitor
NCBI Official Synonym Full Names	serpin family B member 1
NCBI Official Symbol	SERPINB1
NCBI Official Synonym Symbols	EI; LEI; PI2; MNEI; PI-2; HEL57; M/NEI; ELANH2; HEL-S-27
NCBI Protein Information	leukocyte elastase inhibitor
UniProt Protein Name	Leukocyte elastase inhibitor
UniProt Gene Name	SERPINB1
UniProt Synonym Gene Names	ELANH2; MNEI; PI2; LEI; EI; M/NEI; PI-2
UniProt Entry Name	ILEU_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/lei-human-elisa-kits/leukocyte-elastase-inhibitor-serpinb1/330909>