

Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1 Recombinant Protein | ERPINB1 recombinant protein

Recombinant Human Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1 (C-6His)

CATALOG # AAA78607	HOST Human Cells
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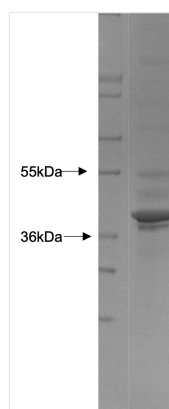
PRODUCT SYNONYMS

Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1; Recombinant Human Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1 (C-6His); ERPINB1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Form/Format	Lyophilized from a 0.2 um filtered solution of 20mM PB,150mM NaCl, pH7.4.
Sequence	MEQLSSANTR FALDLFLALS ENNPAGNIFI SPFSSSAMA MVFLGTRGNT AAQLSKTFHF NTVEEVHSRF QSLNADINKR GASYILKLAN RLYGEKTYNF LPEFLVSTQK TYGADLASVD FQHASEDARK TINQWVKGQT EGKIPELLAS GMVDNMTKL LVNAIFYKGN WKDKFMKEAT TNAPFRLNKK DRKTVKMMYQ KKKFAYGYIE DLKCRVLELP YQGEELSMVI LLPDDIEDES TGLKKIEEQL TLEKLHEWTK PENLDFIEVN VSLPRFKLEE SYTLNSDLAR LGVQDLFNSS KADLSGMSG A RDIFISKIVH KSFVEVNEEG TAAAAATAGI ATFCMLMPEE NFTADHPFLF FIRHNSSGSI LFLGRFSSPV DHHHHHH
Endotoxin	Less than 0.1ng/ug (1 IEU/ug) as determined by LAL test.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.

IMAGES



SDS-PAGE

Figure 1: SDS-PAGE analysis of purified Recombinant Serpin B1 His Tag. 5 ug protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining

ADDITIONAL INFORMATION

Related Product Information for ERPINB1 recombinant protein	Recombinant Human Serpin B1/Leukocyte elastase inhibitor is produced by our Mammalian expression system and the target gene encoding Met1-Pro379 is expressed with a 6His tag at the C-terminus. SERPINB1 is a member of the serpin family and Ov-serpin subfamily. As protease inhibitors, serpins have an array of functions including regulating blood coagulation, fibrinolysis, the complement pathway, angiogenesis, inflammation, tumor suppression, extracellular matrix remodeling, and cell motility. SERPINB1 regulates the activity of the neutrophil proteases elastase, cathepsin G, proteinase-3, chymase, chymotrypsin, and kallikrein-3. Reactive bond 1 of SerpinB1 is specific for reaction with chymotrypsin-like protease such as cathepsin G, chymotrypsin or chymase. Reactive bond 2 of SerpinB1 is specific for reaction with elastase-like protease such as neutrophyl elastase, proteinase-3, pancreatic elastase or PSA. In addition, SERPINB1 also functions as a potent intracellular inhibitor of granzyme H.
Product Categories/Family for ERPINB1 recombinant protein	Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	13489087
NCBI GeneID	1992
NCBI Accession #	NP_109591.1
NCBI GenBank Nucleotide #	NM_030666.3
UniProt Accession #	P30740; Q53FB9; Q5W0E1; Q9UDF8; A8K5L2
Molecular Weight	43.8 kD
NCBI Official Full Name	leukocyte elastase inhibitor
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade B (ovalbumin), member 1
NCBI Official Symbol	SERPINB1
NCBI Official Synonym Symbols	EI; LEI; PI2; MNEI; PI-2; HEL57; M/NEI; ELANH2
NCBI Protein Information	leukocyte elastase inhibitor; peptidase inhibitor 2; epididymis luminal protein 57; protease inhibitor 2 (anti-elastase), monocyte/neutrophil derived; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 1
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.