

Serpin Peptidase Inhibitor Recombinant Protein | SERPINB5 recombinant protein

Recombinant Human Serpin Peptidase Inhibitor, Clade B Member 5

CATALOG #
AAA38696

PRODUCT SYNONYMS

Serpin Peptidase Inhibitor; Recombinant Human Serpin Peptidase Inhibitor; Clade B Member 5; SERPINB5 Human; PI5; maspin; SERPINB5; serpin peptidase inhibitor clade B (ovalbumin) member 5; Serpin B5; Protease inhibitor 5; SERPINB5 recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by SDS-PAGE
Form/Format	The SERPINB5 solution contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol
Sequence	MGSSHHH HHHSSGLVPR GSHMDA LQLANSFAV DLFKQLCEKE PLGNVLFSPi CLSTSLSLAQ VGAKGDTANE IGQVLHFENV KDVPFQFQTV TSDVNKLSSF YSLKLIKRLY VDKSLNLSTE FISSTKRPYA KELETVDFKD KLEETKGQIN NSIKDLTDGH FENILADNSV NDQTKILVVN AAYFVGKWMK KPPESETKEC PFRVNKTDTK PVQMMNMEAT FCMGNIDSIN CKIMELPFQN KHLSMFILLP KDVEDESTGL EKIEKQLNSE SLSQWTNPST MANAKVKLSI PKFKVEKMID PKACLENLGL KHIFSEDTSF FSGMSETKGV ALSNVIHKVC LEITEDGGDS IEVPGARILQ HKDELNADHP FIYIIRHNKT RNIIFFGKFC SP
Sequence Length	375
Source	E Coli
Physical Appearance	Sterile filtered colorless solution
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks.Avoid repeated freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for SERPINB5 recombinant protein	SERPINB5 Human Recombinant fused with 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 395 amino acids (1-375 a.a.) and having a molecular mass of 44.2 kDa.The SERPINB5 is purified by proprietary chromatographic techniques. Introduction: SERPINB5 (Maspin) is a tumor suppressor protein of the serine proteinase inhibitor family. Maspin plays a vital role in embryonic development through critical functions in cell adhesion. In addition, Maspin is present in normal breast and prostatic epithelial cells although down regulated in the particular carcinomas. SERPINB5 impedes the growth, invasion, and metastatic properties of mammary tumors as well as the invasive ability of pancreatic ductal adenocarcinoma cells. SERPINB5 being a breast tumor suppressor gene is a significant marker of the disease progression in breast neoplasms. Furthermore, high expression of maspin is linked to squamous cell carcinoma in non-small-cell lung cancer. Moreover, maspin expression has been directly linked with the biological aggressiveness of ovarian carcinoma. Maspin exhibits no serine protease inhibitory activity since it does not undergo the stressed to relaxed conformational transition typical of active serpins.
Product Categories/Family for SERPINB5 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; Serpin

NCBI AND UNIPROT INFORMATION

NCBI GI #	167860126
NCBI GeneID	5268
NCBI Accession #	NP_002630.2

NCBI GenBank Nucleotide #	NM_002639.4
UniProt Accession #	P36952 ; Q6N0B4 ; Q8WW89 ; B2R6Y4
Molecular Weight	25,763 Da
NCBI Official Full Name	serpin B5
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade B (ovalbumin), member 5
NCBI Official Symbol	SERPINB5
NCBI Official Synonym Symbols	PI5; maspin
NCBI Protein Information	serpin B5; PI-5; peptidase inhibitor 5; protease inhibitor 5 (maspin); serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 5
UniProt Protein Name	Serpin B5
UniProt Gene Name	SERPINB5
UniProt Synonym Gene Names	PI5; PI-5
UniProt Entry Name	SPB5_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://stage.aaabiotech.com/serpinb5-recombinant-protein/38696>