

Recombinant Human SERPINA5, His-tagged

Cat. No. SERPINA5-486H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Serpin A5 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 45.9 kDa (408aa).
Species	Human
Source	E.coli
Description	Serpin A5, also known as PCI (Protein C Inhibitor) or PAI3 (plasminogen activator inhibitor 3), is a member of the serpin serine proteinase inhibitor family. This protein inhibits plasminogen activators as well as activated protein C. Serpin A5 is secreted in plasma, but is also expressed in liver. Serpin A5 is involved in cell inflammation, proliferation, apoptosis, tumour cell migration, invasion, and metastasis.
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MHRHHPREMK KRVEDLHVGA TVAPSSRRDF TFDLYRALAS AAPSQNIFFS PVSISMSLAM LSLGAGSSTK MQILEGLGLN LQKSSEKELH RGFQQLLQEL NQPRDGFQLS LGNALFTDLV VDLQDTFVSA MKTLYLADTF PTNFRDSAGA MKQINDYVAK QTKGKIVDLL KNLDSNAVVI MVNYIFFKAK WETSFNHKGT QEQDFYVTSE TVVRVPMMSR EDQYHYLLDR NLSCRVVGVP YQGNATALFI LPSEGKMQQV ENGLSEKTLR KWLKMFKKRQ LELYLPKFSI EGSYQLEKVL PSLGISNVFT SHADLSGISN HSNIQVSEMV HKAVVEVDES GTRAAATGT IFTFRSARLN SQRLVFNRPF LMFIVDNNIL FLGKVNRP

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Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	SERPINA5 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5 [Homo sapiens]
Synonyms	SERPINA5; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5; PCI; PAI3; PROCI; PLANH3; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5; Plasma serine protease inhibitor; Serpin A5; PAI-3; Acrosomal serine protease inhibitor; Protein C inhibitor; plasminogen activator inhibitor III; plasminogen activator inhibitor-3
Gene ID	5104
mRNA Refseq	NM_000624
Protein Refseq	NP_000615
MIM	601841
UniProt ID	P05154
Chromosome	14q32.1

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Location	
Pathway	Complement and coagulation cascades
Function	acrosin binding; heparin binding; peptidase inhibitor activity; protease binding; protein binding; serine-type endopeptidase inhibitor activity
PDB rendering based on 1lq8.	