

Recombinant Human SERPINA4, His-tagged

Cat. No. SERPINA4-16H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Serpin A4 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gln21-Pro427) of Human SERPINA4 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	21-427 a.a.
Description	Serpin Peptidase Inhibitor, Clade A (α -1 Antiproteinase, Antitrypsin), Member 4 (Serpin A4) is a member of the Serpin family. Serpin A4 exists as a monomer and some homodimers. Serpin A4 is expressed by the liver and secreted in plasma. Serpin A4 is a regulator of vascular homeostasis capable of controlling a wide spectrum of biological actions in the cardiovascular and renal systems. It can inhibit intracellular reactive oxygen species formation in cultured cardiac and renal cells. In addition, Serpin A4 has anti-inflammatory effect. Heparin blocks kallistatin's complex formation with tissue kallikrein and abolishes its inhibitory effect on tissue kallikrein's activity.
Form	Lyophilized from a 0.2 μ M filtered solution of 50mM Tris-HCl, 150mM NaCl, 10mM NaCl, pH 8.0.
AA Sequence	QLHVEHDGESCNSSSHQILETGEGSPSLKIAPANADFAFRFYLIASETPGKNIFFS PLSISAA YAMLSLGACSHRSQILEGLGFNLTELSESDVHRGFQHLLHTLNLPGHGL

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ETRVGSALFLSHNLK FLAKFLNDTMAVYEAKLFHTNFYDTVGTIQLINDHVKKETRG
 KIVDLVSELKKDVLMLVNYIYF KALWEKPFISSRTPKDFYVDENTTVRVPMMMLQD
 QEHHWYLHDRYLPCSVLRMDYKGDATVFFIL PNQGKMREIEEVLTPEMLMRWNNL
 LRKRNFYKKLELHLPKFSISGSYVLDQILPRLGFTDLFSKW ADLSGITKQQKLEASKS
 FHKATLDVDEAGTEAAAATSFAIKFFSAQTNRHILRFNRPFLLVIFST STQSVLFLGK
 VVDPTKPHHHHHH

Endotoxin	Less than 0.1 ng/g (1 IEU/g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	SERPINA4 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4 [Homo sapiens]
Official Symbol	SERPINA4
Synonyms	SERPINA4; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 4; PI4, serine (or cysteine) proteinase inhibitor, clade A (alpha 1

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antiproteinase, antitrypsin), member 4; kallistatin; KAL; KLST; KST

Gene ID

5267

mRNA Refseq

NM_006215

Protein Refseq

NP_006206

MIM

147935

UniProt ID


P29622

**Chromosome
Location**


14q32.13

Function

serine-type endopeptidase inhibitor activity

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