

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	QLHVEHDGESCSNSSHQILETGEGSPSLKIAPANADFAFRFYLIASETPGKNIFFS PLSISAA YAMLSLGACSHSRSQILEGLGFNLTESESDVHRGFQHLLHTLNLPGHGL

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ETRVGSALFLSHNLK FLAKFLNDTMAVYEAKLFHTNFYDTVGTIQLINDHVKKETRG
KIVDLVSELKKDVLMLVNYIYF KALWEKPFISSRTTPKDFYVDENTTVRVPMMMLQD
QEHHWYLDHRYLPCSVLRMDYKGDATVFFIL PNQGKMREIEEVLTPEMLMRWNNL
LRKRNFYKKLELHLPKFSISGSYVLDQILPRLGFTDLFSKW ADLSGITKQQKLEASKS
FHKATLDVDEAGTEAAAATSFAIKFFSAQTNRHILRFNRPFLVVIFST 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 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA