Recombinant Human SERPINA3 protein(Met1-Ala423), His-tagged

Cat. No. SERPINA3-665H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINA3 (NP_001076.2) (Met 1-Ala 423) was expressed in HEK293, with a C-terminal polyhistidine tag.
Species	Human
Source	HEK293
ProteinLength	Met1-Ala423
Form	Lyophilized from sterile 25mM HEPES, 0.15M NaCl, pH 7.8. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is < 5 nM.
Molecular Mass	The recombinant human SERPINA3 consisting of 409 amino acids and has a calculated molecular mass of 46.5 kDa. As a result of different glycosylation, the apparent molecular mass of the recombinant protein is approximately 45 kDa and 55-70 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 97 % as determined by SDS-PAGE

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Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	SERPINA3 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 [Homo sapiens]
Official Symbol	SERPINA3
Synonyms	SERPINA3; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3; AACT, alpha 1 antichymotrypsin , serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 3; alpha-1-antichymotrypsin; ACT; alpha 1 antichymotrypsin; serpin A3; growth-inhibiting protein 24; growth-inhibiting protein 25; cell growth-inhibiting gene 24/25 protein; serine (or cysteine) proteinase inhibitor, clade A, member 3; AACT; GIG24; GIG25; MGC88254;
Gene ID	12
mRNA Refseq	NM_001085
Protein Refseq	NP_001076
MIM	107280
UniProt ID	P01011

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