

Recombinant Mouse SERPINA1E Protein, His tagged

Cat. No. SERPINA1E-143M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SERPINA1E protein with His-tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	Predicted to enable identical protein binding activity; protease binding activity; and serine-type endopeptidase inhibitor activity. Acts upstream of or within response to cytokine and response to peptide hormone. Predicted to be located in Golgi apparatus and endoplasmic reticulum. Predicted to be active in extracellular space. Is expressed in gut; liver lobe; metanephros; and nucleus pulposus. Human ortholog(s) of this gene implicated in several diseases, including alpha 1-antitrypsin deficiency; artery disease (multiple); chronic obstructive pulmonary disease (multiple); inflammatory bowel disease (multiple); and liver disease (multiple). Orthologous to human SERPINA1 (serpin family A member 1).
Molecular Mass	The protein has a calculated MW of 44.92 kDa.
AA Sequence	MNHKVVHHHHHHMEDVQETDTSQKDQSPASHEIATNLGDF AISLYREL VHQSNTSNI FFSPVSIATAFAMLSLGSKGDTHTQILEGLQFNLTQTSEADIHNSFQHLLQTLNRPDS ELQLSTGNGLFVNNDLKLVEKFLEEAKNHYQAEVFSVNFAESEEAKKVINDFVEKGT QGKIVEAVKKLEQDTVFLANYILFKGKWKKPFPDENTKQAEFHVDESTTVKVPMMT LSGMLDVHHCSTLSSWVLLMDYAGNATAVFLLPDDGKMQHLEQTLNKLISKFLLNR RRRLAQIHIPRLSISGNYNLETLMSP LGITRIFNSGADLSGITEENAPLKLSQAVHKAVL

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TIDETGTEAAAATVLQGGFLSMPPILHFNRPFLFIIFEEHSQSPLFVGKVVDPTHK

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer 20 mM Tris-HCl, 100 M NaCl, pH8.0

GENE INFORMATION

Gene Name [Serpina1e](#) serine (or cysteine) peptidase inhibitor, clade A, member 1E [*Mus musculus* (house mouse)]

Official Symbol [Serpina1e](#)

Synonyms Serpina1e; serine (or cysteine) peptidase inhibitor, clade A, member 1E; PI5; Dom5; Spi1-5; alpha-1-antitrypsin 1-5; alpha-1 protease inhibitor 5; serine (or cysteine) proteinase inhibitor, clade A, member 1e; serine protease inhibitor 1-5; serine protease inhibitor A1e; serpin A1e

Gene ID [20704](#)

mRNA Refseq [NM_009247](#)

Protein Refseq [NP_033273](#)

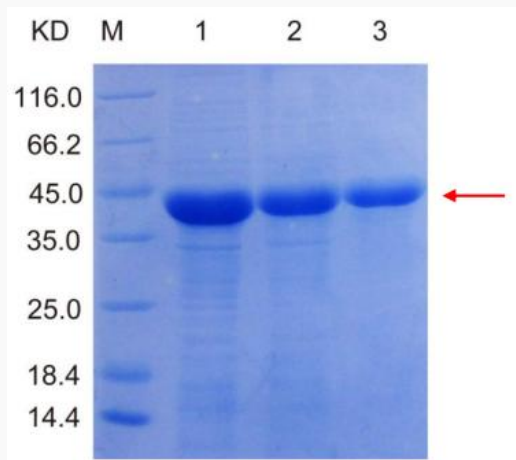
UniProt ID [Q00896](#)

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**Reducing 12% SDS-
PAGE profile of
purified SERPINA1E**



Lane M: Protein Marker

Lane 1: Un-purified

Lane 2: Flow through

Lane 3: Elution