

Recombinant Rat SERPINA1 Protein (25-411 aa), His-tagged

Cat. No. SERPINA1-1514R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat SERPINA1 Protein (25-411 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Immunology. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	Yeast
ProteinLength	25-411 aa
Description	Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin. Short peptide from AAT: reversible chymotrypsin inhibitor. It also inhibits elastase, but not trypsin. Its major physiological function is the protection of the lower respiratory tract against proteolytic destruction by human leukocyte elastase (HLE).
Form	Tris-based buffer, 50% glycerol
Molecular Mass	45.7 kDa
AA Sequence	EDAQETDTSQQDQSPTYRKISSNLADFAFSLYRELVHQSNTSNIFFSPMSITTAFAML SLGSKGDTRKQILEGLEFNLTQIPEADHKAFFHLLQTLNRPDSELQLNTGNGLFVNK NLKLVEKFLVEVKNNYHSEAFSVNFADSEEAKKVINDYVEKGTQGKIVDLMKQLDED

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TVFALVNYIFFKGKWKRPFNPEHTRDADFHVDKSTTVKVPMMNRLGMFDMHYCSTL
SSWVLMMDYLG NATAIFLLPDDGKMQLHLEQTLTKDLISRFLNLRQTRSAIYFPKLSI
SGTYNLKTLSSLGITRVFNNDADLSGITEDAPLKLSQAVHKAVLTLDERGTEAAGAT
VVEAVPMSLPPQVKFDHPFIFMIVESETQSPLFVGKVIDPTR

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [Serpina1](#) serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [*Rattus norvegicus*]

Official Symbol [SERPINA1](#)

Synonyms SERPINA1; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1;

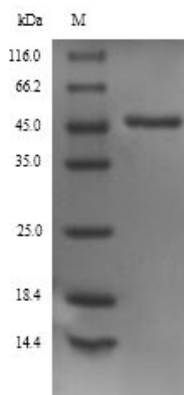
Gene ID [116807](#)

UniProt ID [P17475](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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