

Recombinant Mouse SERPINA5 Protein (25-405 aa), His-tagged

Cat. No. SERPINA5-2816M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SERPINA5 Protein (25-405 aa) is produced by Baculovirus expression system. This protein is fused with a 10xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Full Length of Mature Protein.
Species	Mouse
Source	Insect Cells
ProteinLength	25-405 aa
Description	Heparin-dependent serine protease inhibitor acting in body fluids and secretions. Inactivates serine proteases by binding irreversibly to their serine activation site. Involved in the regulation of intravascular and extravascular proteolytic activities. Plays hemostatic roles in the blood plasma. Acts as a procoagulant and proinflammatory factor by inhibiting the anticoagulant activated protein C factor as well as the generation of activated protein C factor by the thrombin/thrombomodulin complex. Acts as an anticoagulant factor by inhibiting blood coagulation factors like prothrombin, factor XI, factor Xa, plasma kallikrein and fibrinolytic enzymes such as tissue- and urinary-type plasminogen activators. In seminal plasma, inactivates several serine proteases implicated in the reproductive system. Inhibits the serpin acrosin; indirectly protects component of the male genital tract from being degraded by excessive released acrosin. Inhibits tissue-and urinary-type plasminogen activator, prostate-specific antigen and kallikrein activities; has a control on the sperm motility and fertilization. Inhibits the activated protein C-catalyzed degradation of SEMG1 and

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SEMG2; regulates the degradation of semenogelin during the process of transfer of spermatozoa from the male reproductive tract into the female tract. In urine, inhibits urinary-type plasminogen activator and kallikrein activities. Inactivates membrane-anchored serine proteases activities such as MPRSS7 and TMPRSS11E. Inhibits urinary-type plasminogen activator-dependent tumor cell invasion and metastasis. May also play a non-inhibitory role in seminal plasma and urine as a hydrophobic hormone carrier by its binding to retinoic acid.

Form	Tris-based buffer, 50% glycerol
Molecular Mass	45.3 kDa
AA Sequence	SKKKKAKESSVGAVGPPSSKDFAFRLYRALVSESPGQNVFFSPLSVMSLGMLSLG AGLTKTKQILDGLGLSLQGGQEDKLHKGFGQLLQRFQPSDGLQLSLGSALFKDPA VHIRDDFLSAMKTLYMSDTFSTNFGNPEIAKKQINNYVAKQTKGKIVDFIKDL DSTHV MIVVNYIFFKAKWQTAFSETNTHKMDFHVTPKRTTQVPMMNREDGYSYYLDQNISC TVVGIPYQGNAIALFILPSEGKMKQVEDGLDERTLRNWLKMFTRRLDLYLPKFSIEA TYKLENVLPKLG IQDVFTTHADLSGITDHTNIKLSEMVHKSMMEVEESGTTAAAITGAI FTFRSARPSSLKIEFTRPFLTLMEDSHILFVGKVTRP
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 will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name Serpina5 serine (or cysteine) peptidase inhibitor, clade A, member 5 [Mus musculus]

Official Symbol SERPINA5

Synonyms

SERPINA5; PAI3; serpin A5; antitrypsin; protein C inhibitor; alpha-1 antiproteinase; Pci; PAI-3; 4933415L04;

Gene ID 268591

mRNA Refseq NM_172953

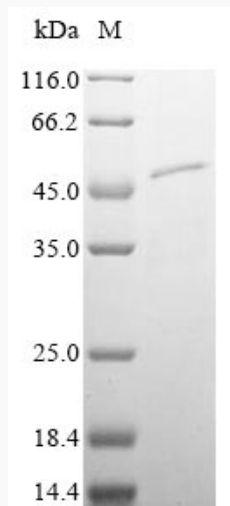
Protein Refseq NP_766541

UniProt ID P70458

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

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