

# Recombinant mouse Serpin A9/Centerin protein

Catalog Number: ATGP3465

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

26-418aa

### UniProt No.

Q9D7D2

### NCBI Accession No.

NP\_082273

### Alternative Names

Serpin A9, Serpin A9, 2310014L03Rik, AW049635, Centerin

## PRODUCT SPECIFICATION

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### Molecular Weight

45.2 kDa (401aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Serpina9, also known as serpin A9, is a member of the Serpin superfamily of serine protease inhibitors. Serpins are the most broadly distributed superfamily of protease inhibitors that use a conformational change to inhibit target enzymes. They are known to inhibit serine proteases and some are known to inhibit caspases and papain-like cysteine proteases. Serpins are conformational labile and many of the disease-linked mutations of serpins

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result in misfolding or in pathogenic, inactive polymers. This protein shows inhibition towards trypsin, thrombin, and plasmin and binds DNA and heparin. Recombinant mouse Serpina9, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

NPYNQESSHL PSMKKNPASQ VSPSNTRFSF LLYQRLAQEN PGQNILFSPV SISTSLAMLS LGARSATKTQ ILRTLGFNFT  
WVSEPTIHMG FEYLVRSLNK CHQGRELRMG SVLFIRKELQ LQATFLDRVK KLYGAKVFSE DFSNAATAQA QINSYVEKET  
KGKVVVDVIQD LDSQTAMVLV NHIFFKANWT QPFSTANTNK SFPFLSKGT TVHVPMMHQT ESFAFGVDKE LGCSILQMDY  
RGDAVAFFVL PGKGKMRQLE KLSARRLRK WSRSLQKRWI KVFIPKFSIS ASYNLETILP KMGIRDAFNS NADFGITKT  
HFLQVSKAAH KAVLDVSEEG TEAAAATTTK LIVRSRDTPS SIIAFKEPFL ILLDKNTES VLFLGKVENP RKMLEHHHHH H

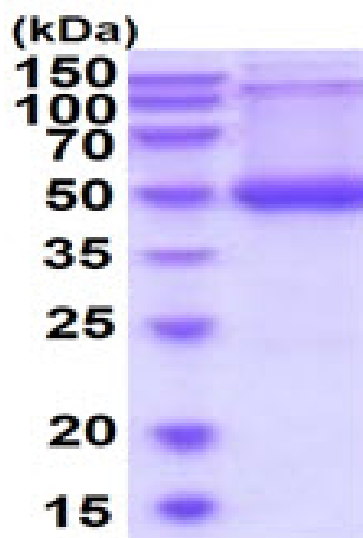
## General References

Law RH., et al. (2006) Genome Biol. 7:216.

Paterson MA., et al. (2007) Biochem J. 405:489-494.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)