

# Product information

## Serpina9, 26-418aa

Mouse, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3465

**Full name:** Serpin A9

**NCBI Accession No.:** NP\_082273

**Synonyms:** Serpin A9, 2310014L03Rik, AW049635, Centerin

**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 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.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

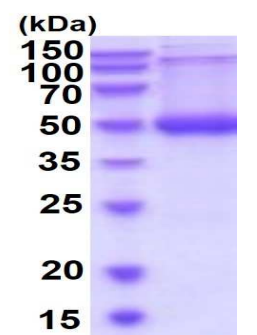
**Molecular Weight:** 45.2kDa (401 aa)  
50-70kDa (SDS-PAGE under reducing conditions.)

**Predicted N terminal:** Asn26

**Purity:** > 85% by SDS - PAGE.

**Concentration:** 0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

### Sequences of amino acids:

NPYNQESSHL PSMKKNPASQ VSPSNTRFSF LLYQRLAQEN PGQNILFSPV S1STSLAMLS LGARSATKTQ ILRTLGFNFT WVSEPTIHMG  
FEYLVRSLNK CHQGRELPMG SVLFIKELQ LQATFLDRVK KLYGAKVFSE DFSNAATAQA QINSYVEKET KGKVVVDVIQD LDSQTAMVLV  
NH1FFKANWT QPFSTANTNK SFPFLLSKGT TVHVPMMHQT ESFAFGVDKE LGCSILQMDY RGDVAFFVL PGKGMQRLE KLSARRLRK  
WSRSLQQRWI KVFIPKFSIS ASYNLETILP KMGIRDANFS NADFGITKT HFLQVSKAAH KAVLDVSEEG TAAAAATTK L1VRSRDTPS  
S1IAFKEPFL ILLLDKNTES VLFLGKVENP RKMLEHHHHH H

### General references:

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

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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