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**Product Data Sheet**


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Product Name: SERPINA9 Mouse  
 Cat. No.: GP24538  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serpina A9; Serpina9; SERPINA9.		
Amino Acid Sequence	NPYNQESSHL PSMKKNPASQ VSPSNTRFSF LLYQRLAQEN PGQNILFSPVSISTSLAMLS LGARSATKTQ ILRTLGFNFT WVSEPTIHMG FEYLVRSLNK CHQGRELRMG SVLFIRKELQLQATFLDRVK KLYGAKVFSE DFSNAATAQA QINSYVEKET KGKVVDVIQD LDSQTAMVLV NHIFFKANWT QPFSTANTNK SFPFLLSKGT TVHVPMMHQT ESFAFGVDKELGCSILQMDY RGDVAFFVL PGKGMQRLE KLSARLRK WSRSLQKRWI KVFIPKFSIS ASYNLETILPKMGIRDAFNS NADFGITKT HFLQVSKAAH KAVLDVSEEG TAAAATTTK LIVRSRDTPS SIAFKEPFL ILLDKNTESVFLGKVENP RKMLEHHHHH H		
Formulation	SERPINA9 protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Serpina Peptidase Inhibitor, Clade A Member 9, also known as serpin A9, belongs to the Serpin superfamily of serine protease inhibitors. Serpins are the most extensively distributed superfamily of protease inhibitors which use a conformational modification to inhibit target enzymes. Serpins are known to inhibit serine proteases as well as inhibiting caspases in addition to papain-like cysteine proteases. Serpins are conformationally labile and numerous of the disease-linked mutations of serpins outcome in misfolding or in pathogenic, inactive polymers. serpin A9 demonstrates inhibition towards trypsin, thrombin, as well as plasmin and binds DNA and heparin.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SERPINA9 Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 401 amino acids (26-418 a.a) and having a molecular mass of 45.2kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). SERPINA9 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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