

## Serpin A1b Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P74555
Synonyms:	Alpha-1-antitrypsin 1-2; AAT; Serpina1b; Aat2; Dom2; Spi1-2
Species:	Mouse
Source:	HEK293
Accession:	P22599 (E25-K413)
Gene ID:	20701
Molecular Weight:	Approximately 70-100 kDa

### PROPERTIES

AA Sequence	<pre> EDVQETDTSQ   KDQSPASHEI   ATNLGDF AIS   LYREL VHQSN TSNIFFS PVS   IATAFAMLSL   GSKGDTHTQI   LEGLQFNLTQ TSEADIHKSF   QHLLQTLNRP   DSELQLSTGN   GLFVNNDLKL VEKFL EEA KN   HYQAEVFSVN   FAESEEA KKV   INDFVEKGTQ GKIVEAVKEL   DQDTV FALAN   YILFKGKWK K   PFD PENTEEA EFHVDKSTTV   KVPMMMLSGM   LDVHHCS ILS   SWVLLMDYAG NASAVFL LPE   DGKMQHLEQT   LNKELISKIL   LNRRRRLVQI HIPRLSISGD   YNLKTLMSPL   GITRIFNNGA   DLSGITEENA PLKLSKAVHK   AVLTI DETGT   EAAAATVFEA   VPMSMPPILR FDHPFLFIIF   EEHTQSPIFV   GKVVDP THK           </pre>
Biological Activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> . The IC <sub>50</sub> value is 4.166 nM, as measured under the described conditions.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Serpin A1b, a vigilant guardian within the intricate realm of cellular regulation, operates as an adept inhibitor of serine proteases. Elastase stands as its primary target, encountering a formidable defense against its enzymatic activity. Beyond its specialized role, Serpin A1b also demonstrates a moderate affinity for plasmin and thrombin, showcasing its versatility in interacting with a spectrum of serine proteases. In fulfilling its regulatory duties, Serpin A1b emerges as a multifaceted sentinel, contributing to the nuanced orchestration of proteolytic processes within cellular landscapes.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA