

Serpin A1c Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71301
Synonyms:	Alpha-1-antitrypsin 1-3; Alpha-1 protease inhibitor 3; Alpha-1 protease inhibitor 6; Alpha-1-antitrypsin 1-6; Serine protease inhibitor 1-3; Serine protease inhibitor 1-6; Serine protease inhibitor A1c; Serpin A1c; Serpina1c; Dom3; Dom6; Spi1-3; Spi1-6
Species:	Mouse
Source:	HEK293
Accession:	Q00896 (E25-K413)
Gene ID:	20702
Molecular Weight:	45-60 kDa

PROPERTIES

AA Sequence	<pre> EDVQETDTSQ KDQSPASHEI ATNLGDF AIS LYREL VHQSN TSNIF FSPVS IATAFAMLSL GSKGDTHTQI LEGLQFNLTQ TSEAD IHKSF QHLLQTLNRP DSELQLSTGN GLFVNNDLKL VEKFL EEAKN HYQAEVFSVN FAESEEA KKV INDFVEKGTQ GKIVE AVKKL DQDTV FALAN YILFKGKWKK PFDPE NTEEA EFHVDE STTV KVPMM T LSGM LDVHHCSTLS SWVLLMDYAG NATAV FLLPD DGKMQHLEQT LSKELISKFL LNR RRR LAQI HFPRLSISGE YNLKTLMSPL GITRIFNNGA DLSGITEENA PLKLSQAVHK AVLTI DETGT EAAAVTVLLA VPYSMPPI LR FDHPFLFIIF EEHTQSPLFV GKVVDP THK </pre>
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 ₂ 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

Background	Serpin A1c, a proficient guardian within the intricate realm of cellular regulation, assumes the role of an inhibitor
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specializing in serine proteases. Its watchful gaze extends to trypsin and chymotrypsin, where it showcases remarkable efficacy in thwarting their enzymatic activities. However, its prowess takes a nuanced turn, displaying a relative inefficacy against elastase. Serpin A1c's strategic inhibition of specific serine proteases underscores its significance as a discerning regulator, contributing to the delicate balance of enzymatic activities within cellular environments.

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

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