

## Serpin B6 Protein, Human (Trx-His)

<b>Cat. No.:</b>	HY-P70970
<b>Synonyms:</b>	Serpin B6; Cytoplasmic Antiproteinase; CAP; Peptidase Inhibitor 6; PI-6; Placental Thrombin Inhibitor; SERPINB6; PI6; PTI
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P35237 (M1-P376)
<b>Gene ID:</b>	5269
<b>Molecular Weight:</b>	58-60 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MDVLA EANGT   FALNLLKTLG   KDNSKNVFFS   PMSMSCALAM VYMGAKGNTA   AQMAQILSFN   KSGGGGDIHQ   GFQSLLTEVN KTGTQYLLRV   ANRLFGEKSC   DFLSSFRDSC   QKFYQAEMEE LDFISAVEKS   RKHINTWVAE   KTEGKIAELL   SPGSVDPLTR LVLVNAVYFR   GNWDEQFDKE   NTEERLFKVS   KNEEKPVQMM FKQSTFKKTY   IGEIFTQILV   LPYVGKELNM   IIMLPDETTD LRTVEKELTY   EKFEWTRLD   MMDEEEVEVS   LPRFKLEESY DMESVLRNLG   MTDAFELGKA   DFGMSQTDL   SLSKVVHKSF VEVNEEGTEA   AAATAAIMMM   RCARFVPRFC   ADHPFLFFIQ HSKTNGILFC   GRFSSP           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	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).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The Serpin B6 protein emerges as a potential regulator, potentially playing a role in the modulation of serine proteinases found in the brain or extravasated from the blood. It functions as an inhibitor of cathepsin G, kallikrein-8, and thrombin,
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indicating its involvement in the regulation of these proteases. Notably, Serpin B6 may play a crucial role in the inner ear, contributing to the protection against the leakage of lysosomal content during stress. Loss of this protective function is implicated in cell death and sensorineural hearing loss, highlighting the significance of Serpin B6 in maintaining inner ear homeostasis. Additionally, the protein forms a complex with the monomeric form of beta-tryptase, further expanding its potential interactions and roles in cellular processes.

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

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