

Serpin B6 Protein, Human (sf9, His)

Cat. No.:	HY-P76640
Synonyms:	Serpin B6; Cytoplasmic Antiproteinase; CAP; Peptidase Inhibitor 6; PI-6; Placental Thrombin Inhibitor; SERPINB6; PI6; PTI
Species:	Human
Source:	Sf9 insect cells
Accession:	P35237 (D2-P376)
Gene ID:	5269
Molecular Weight:	Approximately 43 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	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, 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.
------------	---

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

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