

## Serpin B4 Protein, Human (sf9, His)

Cat. No.:	HY-P77198
Synonyms:	Serpin B4; Leupin; Peptidase inhibitor 11; PI-11; SCCA-2
Species:	Human
Source:	Sf9 insect cells
Accession:	P48594 (M1-P390)
Gene ID:	6318
Molecular Weight:	Approximately 45 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 20% Glycerol, 1 mM EDTA, 1 mM DTT. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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 B4 protein emerges as a potential regulator in the host immune response against tumor cells by acting as a protease inhibitor. Its role as a modulator suggests a crucial function in fine-tuning the intricate balance of immune responses, particularly in the context of combating tumor cells. The protein's ability to inhibit proteases signifies its capacity to influence key regulatory pathways, potentially enhancing the immune system's effectiveness in recognizing and responding to cancerous cells. Serpin B4, in acting as a protease inhibitor, underscores its significance in the dynamic interplay between the immune system and tumor cells, positioning it as a promising candidate for further exploration in cancer immunotherapy.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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