

Serpin B9 Protein, Human (HEK293, His)

Cat. No.:	HY-P71306
Synonyms:	Cytoplasmic antiproteinase 3; Peptidase inhibitor 9; CAP3; PI-9; Serpin B9
Species:	Human
Source:	HEK293
Accession:	P50453 (M1-P376)
Gene ID:	5272
Molecular Weight:	35-40 kDa

PROPERTIES

AA Sequence	<pre> METLSNASGT FAIRLLKILC QDNPSHNVFC SPVSISSALA MVL LGAKGNT ATQMAQALS L NTEEDIHRAF QSLLTEVNKA GTQYLLRTAN RLFGEKTCQF LSTFKESCLQ FYHAELKELS FIRAAEESRK HINTWVSKKT EGKIEELLPG SSIDAETRLV LVNAIYFKGK WNEPFDETYT REMPFKINQE EQRPVQMMYQ EATFKLAHVG EVRAQLLELP YARKELSLLV LLPDDGVELS TVEKSLTFEK LTAWTKPDCM KSTEVEVLLP KFKLQEDYDM ESVLRHLGIV DAFQQGKADL SAMSAERDLC LSKFVHKSFV EVNEEGTEAA AASSCFVVAE CCMESGPRFC ADHPFLFFIR HNRANSILFC GRFSSP </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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	The Serpin B9 Protein functions as a granzyme B inhibitor, playing a crucial role in regulating immune responses. As a member of the serpin family, this protein specifically targets and inhibits granzyme B, a protease involved in immune cell-
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mediated apoptosis. By acting as a potent inhibitor, Serpin B9 modulates the cytotoxic activity of granzyme B, thereby influencing key processes in immune defense and contributing to the fine-tuning of immune responses. The regulatory capacity of Serpin B9 highlights its significance in maintaining immune balance and preventing unwarranted cell death mediated by granzyme B.

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

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