

Serpin B12 Protein, Mouse (sf9, His)

Cat. No.:	HY-P77197
Synonyms:	SERPINB12; Serpin B12; Serine Protease Inhibitor-clade B12
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q9D7P9 (M1-P423)
Gene ID:	71869
Molecular Weight:	Approximately 58 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 10% Glycerol, 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	Serpin B12, a versatile protease inhibitor, exerts inhibitory effects on trypsin and plasmin while sparing thrombin, coagulation factor Xa, and urokinase-type plasminogen activator. Beyond its role as a protease regulator, Serpin B12 is implicated in cell differentiation, where it interacts with SLFN12, contributing to a pathway that governs the intricate process of cellular differentiation. This highlights the multifunctional nature of Serpin B12, suggesting its involvement in crucial cellular processes beyond its classical role as a protease inhibitor.
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Caution: Product has not been fully validated for medical applications. For research use only.

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