

Serpin A11 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	serpin peptidase inhibitor, clade A (α -1 antiproteinase, antitrypsin), member 11;serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 11;Gm895
Protein Construction:	A DNA sequence encoding the mouse SERPINA11 isoform 1 (NP_955018.2) (Met 1-Gly 424) was expressed, fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Gln 22
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	E9QLL8
Molecular Weight:	46.2 kDa (predicted); 60-65 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 94 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Serpins are the largest and most diverse family of serine protease inhibitors which are involved in a number of fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. Serpins are a group of proteins with similar structures that were first identified as a set of proteins able to inhibit proteases. The acronym serpin

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was originally coined because many serpins inhibit chymotrypsin-like serine proteases (serine protease inhibitors). Over 1 serpins have been identified. Mouse Serpin A11, also known as SERPINA11, is a member of the serpin family.

Reference

- Irving JA. et al., 2000, Genome Res. 10: 1845-64.
- Irving J. et al., 2002, Mol Biol Evol 19 (11): 1881-90.
- Forsyth, S. et al., 2003, Genomics 81: 336-345.
- Horvath, AJ. et al., 2004, J. Mol. Evol. 59: 488-497.
- Steenbakkers PJ. et al., 2008, Mycol. Res. 112 (Pt 8): 999-1006.

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