

Mouse SerpinB12 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 50565-M08B

General Information

Gene Name Synonym:

2300003F07Rik; 4833409F13Rik

Protein Construction:

A DNA sequence encoding the mouse SERPINB12 (NP_082247.1) (Met 1-Pro 423) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μ g of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met 1

Molecular Mass:

The recombinant mouse SERPINB12 consists of 434 amino acids and has a calculated molecular mass of 49.3 kDa. The apparent molecular mass of the protein is approximately 58 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, 0.5mM PMSF, 10% glycerol, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

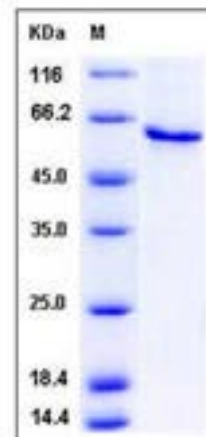
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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. Most serpins are secreted and attain physiologic concentrations in the blood and extracellular fluids. Mouse SerpinB12 is a cytoplasm protein which belongs to the serpin family and Ov-serpin subfamily. It is expressed in many tissues, including brain, bone marrow, lymph node, heart, lung, liver, pancreas, testis, ovary, and intestine. SerpinB12 inhibits trypsin and plasmin, but not thrombin, coagulation factor Xa, or urokinase-type plasminogen activator.

References

1. Askew, Y.S. et al., 2001, J Biol Chem. 276 (52):49320-30. 2. Rawlings, ND. et al., 2004, Biochem J. 378: 705-16. 3. Gillard, A. et al., 2006, Am J Nephrol. 26 (1): 34-42.

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