

Human alpha-2-macroglobulin (His Tag) recombinant protein



Catalog Number: 501606

General Information

Gene Name Synonym

C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5

Protein Construction

A DNA sequence encoding the human A2M (NP_000005.2) (Met 1-Ala 1474) was expressed, fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

Activity

Measured by its ability to trap trypsin. The trapped trypsin is no longer able to interact with protein substrates or inhibitors, but still able to cleave small peptide substrates or inhibitors. The IC₅₀ value is <5 nM.

Purity

> 92 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg 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

Ser 24

Molecular Mass

The recombinant human A2M consists of 1461 amino acids and predicts a molecular mass of 164 kDa. The apparent molecular mass of rhA2M is approximately 160-170 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

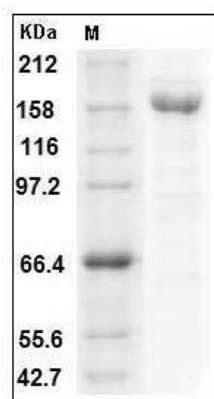
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human A2M / CPAMD5 / Alpha-2-macroglobulin Protein (His Tag) SDS-PAGE