Human SerpinA1 / A1AT Protein (His Tag)

Catalog Number: 10306-H08H

General Information

Gene Name Synonym:
A1A; A1AT; AAT; alpha1AT; MGC23330; MGC9222; PI; PI1; PRO2275; SerpinA1

Protein Construction:
A DNA sequence encoding the human SerpinA1 (NP_000286.3) pre-protein (Met 1-Lys 418) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio Activity:
Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nva-WRK(Dnp)-NH2 (Anaspec, Catalog#27114). The IC50 value is < 3.0 nM, as measured in 100μL reaction mixture containing 1.25 ng trypsin (Sigma, Catalog#T1426), 10 μM substrate, 50 mM Tris, 10 mM CaCl2, 0.15 M NaCl, pH 7.5.

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: Glu 25

Molecular Mass:
The secreted mature form of recombinant human SerpinA1 consists of 405 amino acids and has a calculated molecular mass of 45.7 kDa. Due to glycosylation, the rhSerpinA1 migrates as an approximately 55-60 kDa protein in SDS-PAGE analysis under reducing conditions.

Formulation:
Lyophilized from sterile PBS, 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.

References


Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 ● Tel: 215-583-7898
Global Customer: Fax: +86-10-5862-8288 ● Tel:+86-400-890-9989 ● http://www.sinobiological.com