

Recombinant Human SerpinA1/A1AT Protein (His Tag)

RPES4565

Description

This high-purity recombinant protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU: RPES4565

Purity: > 97 % as determined by reducing SDS-PAGE.

Contents: 100µg, 1mg
Bradford Reagent: 1 vial (2ml)

Concentration: -

Species: Human

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Synonyms: A1A, A1AT, AAT, Alpha-1 Protease Inhibitor, Alpha-1-Antiproteinase, Alpha-1-Antitrypsin, MGC23330, MGC9222, PI, PI1, PRO2275, SERPINA1, Serpin A1, alpha1AT

Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Store Bradford Reagent at Room Temperature for 1 year.

Tag: C-His

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Expression Host: HEK293 Cells

Bio-Activity: Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-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.

Calculated MW: 45.7 kDa

Formulation: Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.

Manufacturers Statement: This final kit system is assembled and quality-released by Assay Genie Limited.

Observed MW: 55-60 kDa

Reconstitution: Please refer to the printed manual for detailed information.

Accession: NP_000286.3

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

Source: HEK293 Cells-derived Human SerpinA1/A1AT protein Met 1-Lys 418, with an C- terminal His

Sequence: Met 1-Lys 418

Notes: Centrifuge before opening to ensure complete recovery of vial contents.

Form: Lyophilized powder