

Recombinant Human Serpin A3/Alpha-1antichymotrypsin Protein

Catalog No.: RP00194 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 12 P01011

Tags C-His

Synonyms

AACT; ACT; GIG24; GIG25;SERPINA3;ACT;GIG24;GIG25

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

45.87 kDa 55-70 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of 20mM HEPES,150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

6	400-999-6126
\times	cn.market@abclonal.com.cn

Background

SerpinA3, also known as Alpha 1-antichymotrypsin (AACT), is a plasma alpha globulin glycoprotein, and is a member of serpin superfamily of the serine protease inhibitors. It is synthesized primarily in the liver and secreted as one of the most abundant serpins in plasma. SerpinA3 deficiency has been associated with liver disease, and mutations of this gene have been observed in patients with Parkinson disease and chronic obstructive pulmonary disease. Serpin A3 is a major constituent of the plaques associated with Alzheimer's disease and an inhibitor of amyloid beta peptide degradation.

Basic Information

Description

Recombinant Human Serpin A3/Alpha-1-antichymotrypsin Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Asn26-Ala423) of human Serpin A3/AACT (Accession #NP_001076.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit chymotrypsin cleavage of a fluorogenic peptide substrate MCA-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is <11.5 nM.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

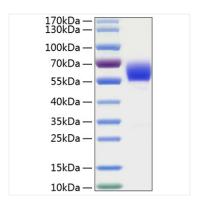
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Serpin A3/Alpha-1antichymotrypsin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.