For Research Use Only

Recombinant Human Alpha 1 antichymotrypsin protein (rFc Tag)

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Catalog Number: Eg12047

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Alpha 1 antichymotrypsin protein Asn26-Ala423 (Accession# P01011-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
12

Accession:
P01011-1

Predicted Molecular Mass:
71.1 kDa

SDS-PAGE:
75-100 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Human SerpinA3, also known as Alpha 1-antichymotrypsin (AACT), is a member of the serine protease inhibitor class, and is a plasma alpha globulin glycoprotein which increases in the blood during the inflammatory process. SerpinA3, is also an inhibitor of neutrophil cathepsin G, mast cell chymases and pancreatic chymotrypsin. SerpinA3 is produced primarily in the liver, and is identified as an acute-phase inflammatory protein. SerpinA3 deficiency has been associated with liver disease. SerpinA3 has also been implicated in the pathology of a number of devastating human diseases including chronic obstructive pulmonary disease (COPD), Parkinson's disease (PD), Alzheimer's disease (AD), Stroke, Cystic Fibrosis, Cerebral Haemorrhage and Multiple System Atrophy.

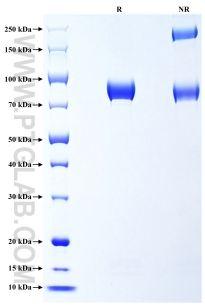
References

1.Rabin, M et al. Somatic cell and molecular genetics vol. 12,2 (1986): 209-14.
2.Liu, Tao et al. Journal of proteome research vol. 4,6 (2005): 2070-80.
3.Hwang, S R et al. The Journal of biological chemistry vol. 274,3 (1999): 1821-7.
4.Travis, J et al. Biochemistry vol. 17,26 (1978): 5651-6.

Synonyms

Alpha Antichymotrypsin, SERPINA3, A1 Antichymotrypsin, A-1-Antichymotrypsin, AACT

Selected Validation Data



Purity of Recombinant Human Alpha 1 antichymotrypsin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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