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Datasheet for ABIN7534222
SERPINA3 Protein (His tag)

Overview

Quantity:	100 µg
Target:	SERPINA3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINA3 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Serpin A3/Alpha-1-antichymotrypsin Protein
Sequence:	NSPLDEENLT QENQDRGTHV DLGLASANVD FAFSLYKQLV LKAPDKNVIF SPLSISTALA FLSLGAHNNTT LTEILKGLKF NLTETSEAEI HQSFQHLLRT LNQSSDELQL SMGNAMFVKE QLSLLDRFTE DAKRLYGSEA FATDFQDSAA AKKLINDYVK NGTRGKITDL IKDLDSTMM VLVNYIFFKA KWEMPFDPQD THQSRFYLSK KKWVMPMMS LHHLTIPYFR DEELSCTVVE LKYTGNASAL FILPDQDKME EVEAMLLPET LKRWRDSLEF REIGELYLPK FSISRDNLN DILLQLGIEE AFTSKADLSG ITGARNLAVS QVHKAVLDV FEEGTEASAA TAVKITLLSA LVETRTIVRF NRPFLMIIVP TDTQNIFFMS KVTNPKQA
Specificity:	Asn26-Ala423
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Product Details

Biological Activity Comment: 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.

Target Details

Target: SERPINA3

Alternative Name: Serpin A3/Alpha-1-antichymotrypsin ([SERPINA3 Products](#))

Background: Description: 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.

Name: AACT, ACT, GIG24, GIG25, SERPINA3, ACT, GIG24, GIG25

Gene ID: 12

UniProt: [P01011](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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 stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 8.0.

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.