

Serpin A3 Protein, Human (K267R, HEK293, His)

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| Cat. No.: | HY-P71054 |
| Synonyms: | Alpha-1-Antichymotrypsin; ACT; Cell Growth-Inhibiting Gene 24/25 Protein; Serpin A3; SERPINA3; AACT |
| Species: | Human |
| Source: | HEK293 |
| Accession: | P01011 (H24-A423, K267R) |
| Gene ID: | 12 |
| Molecular Weight: | 56-80 kDa |

PROPERTIES

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| AA Sequence | <p> H P N S P L D E E N L T Q E N Q D R G T H V D L G L A S A N V D F A F S L Y K Q L V L K A P D K N V I F S P L S I S T A L A F L S L G A H N T T L T E I L K G L K F N L T E T S E A E I H Q S F Q H L L R T L N Q S S D E L Q L S M G N A M F V K E Q L S L L D R F T E D A K R L Y G S E A F A T D F Q D S A A A K K L I N D Y V K N G T R G K I T D L I K D L D S Q T M M V L V N Y I F F K A K W E M P F D P Q D T H Q S R F Y L S K K K W V M V P M M S L H H L T I P Y F R D E E L S C T V V E L R Y T G N A S A L F I L P D Q D K M E E V E A M L L P E T L K R W R D S L E F R E I G E L Y L P K F S I S R D Y N L N D I L L Q L G I E E A F T S K A D L S G I T G A R N L A V S Q V V H K A V L D V F E E G T E A S A A T A V K I T L L S A L V E T R T I V R F N R P F L M I I V P T D T Q N I F F M S K V T N P K Q A </p> |
| Biological Activity | Measured by its ability to inhibit chymotrypsin cleavage of a fluorogenic peptide substrate MCA-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The IC ₅₀ is 15.152 nM, as measured under the described conditions. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 7.5 or pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in 20 mM HEPES, 150 mM NaCl, pH 7.4. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

While the physiological function of Serpin A3 remains unclear, it exhibits inhibitory activity against neutrophil cathepsin G and mast cell chymase. These enzymes play a role in the conversion of angiotensin-1 to the biologically active angiotensin-2. Additionally, Serpin A3 interacts with DNAJC1.

Caution: Product has not been fully validated for medical applications. For research use only.

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