

Recombinant Human A2M Protein (Ser24-Ala1474), N-His tagged, Biotinylated

Cat. No. A2M-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Biotin-conjugated recombinant human alpha-2-macroglobulin/A2M protein, derived from the transfected human HEK293 cells. The primary amino groups (-NH ₂) at the N-terminus and the side chains of lysine (K) residues were biotin-conjugated using the standard chemical labeling method.
Species	Human
Source	HEK293
ProteinLength	Ser24-Ala1474
Description	The protein encoded by this gene is a protease inhibitor and cytokine transporter. It uses a bait-and-trap mechanism to inhibit a broad spectrum of proteases, including trypsin, thrombin and collagenase. It can also inhibit inflammatory cytokines, and it thus disrupts inflammatory cascades. Mutations in this gene are a cause of alpha-2-macroglobulin deficiency. This gene is implicated in Alzheimer's disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits. A related pseudogene, which is also located on the p arm of chromosome 12, has been identified.
Form	Lyophilized powder
Molecular Mass	Recombinant human A2M protein has a calculated molecular mass of 160 kDa. For unknown reason, the purified A2M protein can not enter SDS-PAGE gel. The identity

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of purified A2M protein was confirmed by Sandwich ELISA using specific antibodies.

Purity > 95%

Storage Upon arrival, the lyophilized protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store desiccated below -20 centigrade in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 centigrade. For long term storage, it is recommended to make appropriate aliquots and store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Storage Buffer Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)

Reconstitution Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5-1.0 mg/mL with sterile deionized water.

Shipping Ice packs

Conjugation Biotin


GENE INFORMATION

Gene Name A2M alpha-2-macroglobulin [Homo sapiens (human)]


Official Symbol A2M

Synonyms A2M; alpha-2-macroglobulin; A2MD; CPAMD5; FWP007; S863-7; alpha-2-macroglobulin; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; alpha-2-M

Gene ID 2

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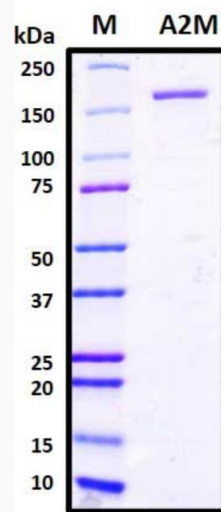
mRNA Refseq [NM_000014](#)


Protein Refseq [NP_000005](#)

MIM [103950](#)


UniProt ID [P01023](#)

SDS-PAGE



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