

Recombinant Human A2M Protein, N-His-tagged

Cat. No. A2M-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human A2M Protein, fused to His-tag at N-terminus, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 from a 0.2 µ filtered solution in PBS (pH 7.4).
Molecular Mass	160 kDa
Endotoxin	<0.5 EU per g of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE under reducing conditions and visualized by Coomassie blue staining.

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Usage	This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.
Storage	Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.
Concentration	Determined by BCA protein assay.
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

GENE INFORMATION

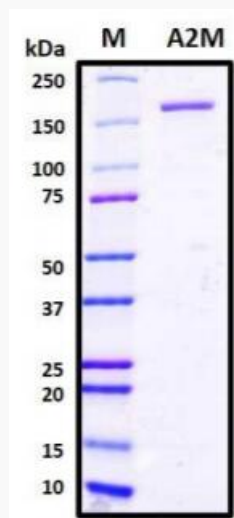
Gene Name	A2M alpha-2-macroglobulin [Homo sapiens (human)]
Official Symbol	A2M
Synonyms	A2MD; CPAMD5; FWP007; S863-7
Gene ID	2
mRNA Refseq	NM_000014.6
Protein Refseq	NP_000005.3
MIM	103950
UniProt ID	P01023

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SDS-PAGE



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