

## Recombinant Human A2M Protein, N-His-tagged

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

### SPECIFICATION

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

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|                       |                                                                                                                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage</b>          | This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.                                                                                                                     |
| <b>Storage</b>        | 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. |
| <b>Concentration</b>  | Determined by BCA protein assay.                                                                                                                                                                                       |
| <b>Reconstitution</b> | 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.                                                        |
| <b>Shipping</b>       | Ice packs                                                                                                                                                                                                              |

## GENE INFORMATION

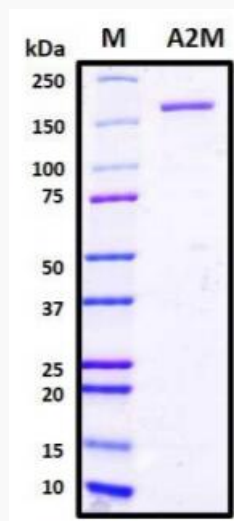
|                        |                                                    |
|------------------------|----------------------------------------------------|
| <b>Gene Name</b>       | A2M alpha-2-macroglobulin [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | A2M                              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

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SDS-PAGE



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