

## Native Human A2M Protein

**Cat. No.** A2M-01H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human Alpha-2 Macroglobulin is a tetrameric glycoprotein, purified from Human plasma.
<b>Species</b>	Human
<b>Source</b>	Human Plasma
<b>ProteinLength</b>	Full Length
<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>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized A2M in sterile 18MΩ-cm H <sub>2</sub> O.
<b>Molecular Mass</b>	725 kDa
<b>Purity</b>	Greater than 96.0 %

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<b>Note</b>	For Research Use Only. Not for use in diagnostic procedures.
<b>Storage</b>	Human Alpha-2 Macroglobulin although stable at room temperature for 3 weeks, should be stored between 2-8 centigrade. Do not freeze!
<b>Storage Buffer</b>	Lyophilized from 0.02M TRIS, 0.15M NaCl and 0.1M Sucrose, pH 8.0.

## GENE INFORMATION

<b>Gene Name</b>	A2M alpha-2-macroglobulin [ Homo sapiens (human) ]
<b>Official Symbol</b>	A2M
<b>Synonyms</b>	A2M; alpha-2-macroglobulin; CPAMD5; FWP007; S863 7; alpha-2-M; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; A2MD; S863-7; DKFZp779B086;
<b>Gene ID</b>	2
<b>mRNA Refseq</b>	NM_000014
<b>Protein Refseq</b>	NP_000005
<b>MIM</b>	103950
<b>UniProt ID</b>	P01023

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