

Native Human A2M Protein

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

SPECIFICATION

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

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

GENE INFORMATION

Gene Name	A2M alpha-2-macroglobulin [Homo sapiens (human)]
Official Symbol	A2M
Synonyms	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;
Gene ID	2
mRNA Refseq	NM_000014
Protein Refseq	NP_000005
MIM	103950
UniProt ID	P01023

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