

Recombinant Human A2M protein, His-tagged

Cat. No. A2M-5731H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human A2M aa. (Ser616~Val856 (Accession # P01023)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser616~Val856
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	Freeze-dried powder
Molecular Mass	30kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.7.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

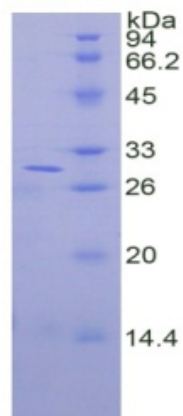
GENE INFORMATION

Gene Name	A2M alpha-2-macroglobulin [Homo sapiens (human)]
Official Symbol	A2M
Synonyms	A2M; alpha-2-macroglobulin; A2MD; CPAMD5; FWP007; S863-7; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; alpha-2-M
Gene ID	2
mRNA Refseq	NM_000014.5
Protein Refseq	NP_000005.2

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UniProt ID**P01023****SDS-PAGE****Human a2M**

15% SDS-PAGE

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