

Recombinant Human A2M Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. A2M-499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A2M MS Standard C13 and N15-labeled recombinant protein (NP_000005) with a C-terminal MYC/DDK tag, 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.
Molecular Mass	163.3 kDa
AA Sequence	MGKNKLLHPSLVLLLLVLLPTDASVSGKPQYMLVPSLLHTETTEKGCVLLSYLNETV TVSASLESVRGNRSLFTDLEAENDVLHCVAFAVPKSSSNEEVMFLTVQVKGPTQEF KKRTTVMVKNEDSLVFVQTDKSIYKPGQTVKFRVVSMDENFHPLNELIPLVYIQDPK GNRIAQWQSFQLEGGLKQFSFPLSSEPFQGSYKVVVQKKSGGRTEHPFTVEEFVLP KFEVQVTVPKIITILEEEMNVSVCGLYTYGKPVPGHVTVSICRKYSDDASDCHGEDSQA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

FCEKFSGQLNSHGCFYQQVKTKVFQLKRKEYEMKLHTEAQIQEEGTVVELTGRQSS
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 SLFFTVLQDVPVRDLKPAIVKVYDYETDEFAIAEYNAPCSKDLGNATRTRPLEQKLI
 SEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

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Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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

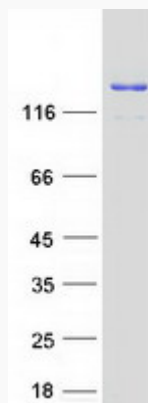
MIM 103950

UniProt ID P01023

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SDS-PAGE

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