

Product datasheet for **AR05066PU-N**

Alpha-2-macroglobulin / A2M Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Alpha-2-macroglobulin / A2M human protein, 1 mg
Species:	Human
Concentration:	lot specific
Purity:	>96% by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: TRIS buffered saline containing 0.1M Sucrose
Preparation:	Liquid purified protein
Applications:	ELISA.
Protein Description:	Purified alpha-2-macroglobulin from human serum.
Note:	Caution: (A full Health and Safety assessment is available upon request) Donor serum tested and found negative for HIV I and II antibodies, HBsAg and HCV antibodies.
Storage:	Store the protein at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000005
Locus ID:	2
UniProt ID:	P01023
Cytogenetics:	12p13.31
Synonyms:	A2MD; CPAMD5; FWP007; S863-7



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Summary: 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. [provided by RefSeq, Nov 2016]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Complement and coagulation cascades