

Product datasheet for BA432

Alpha-2-macroglobulin / A2M Human Protein

Product data:

Product Type:	Native Proteins
Description:	Alpha-2-macroglobulin / A2M human protein, 1 mg
Species:	Human
Protein Source:	Plasma
Concentration:	lot specific
Purity:	>95% pure by SDS-PAGE.
Buffer:	Presentation State: Purified State: Lyophilized purified protein. Buffer System: 30mM Sodium Phosphate, pH 7.0 containing 1 mg glycine and no preservative.
Reconstitution Method:	Restore with 340 µl distilled water.
Preparation:	Lyophilized purified protein.
Note:	Caution: All human source materials have tested negative for HIV 1, HIV 2, anti-HCV, anti-HBc antibodies and HBsAg. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000005
Locus ID:	2
Cytogenetics:	12p13.31
Synonyms:	Alpha-2-M, CPAMD5, Alpha 2 macroglobulin



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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