

Native Mouse Alpha-2-Macroglobulin

Cat. No. A2m-367M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Mouse A2m is prepared from Mouse Serum.
Species	Mouse
Source	Mouse Serum
Description	A2m is a serum protease inhibitor that consists of two major polypeptides with molecular weights of approximately 163 kDa and 35 kDa together with a minor polypeptide of 185 kDa. A2m is able to inactivate an enormous variety of proteinases (including serine-, cysteine-, aspartic-, and metalloproteinases). A2m uses a bait region to bind proteinases. The proteinase-A2m complex is recognized by macrophage receptors and cleared from the system. A2m functions as an inhibitor of coagulation by inhibiting thrombin. A2m also functions as an inhibitor of fibrinolysis by inhibiting plasmin and kallikrein.
Form	150 mM NaCl + 10 mM Sodium Phosphate pH 7.2
Purity	> 90% by SDS-PAGE
Concentration	Typically > 0.5 mg/mL
Storage	Store ≤ -20°C.
Pathways	Complement and Coagulation Cascades

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GENE INFORMATION

Gene Name	A2m alpha-2-macroglobulin [Musmusculus]
Official Symbol	A2m
Synonyms	A2m;alpha-2-macroglobulin; A2mp; alpha-2-macroglobulin-P
Gene ID	232345
mRNA Refseq	NM_175628
Protein Refseq	NP_783327
MIM	Q6GQT1
Chromosome Location	6
Function	endopeptidaseinhibitor activity; enzyme binding; growth factor binding; interleukin-1binding; peptidase inhibitor activity; serine-type endopeptidase inhibitoractivity; tumor necrosis factor binding
Crystal structure of alpha-2-macroglobulin. Rendered from PDB2P9R.	

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