

# Recombinant Human alpha-2-macroglobulin Protein, His tagged

**Cat. No.** A2M-117H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human A2M/alpha-2-macroglobulin protein (P01023) (Glu 906-Ala 1474) with a His tag at the C-terminus was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	906-1474aa
<b>Description</b>	Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region, a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase.
<b>Tag</b>	C-His
<b>Molecular Mass</b>	64.3 kDa
<b>Endotoxin</b>	Less than 1.0 EU/μg by the LAL method.

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<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
<b>Reconstitution</b>	Reconstitute at 250 µg/mL in sterile water.

## GENE INFORMATION

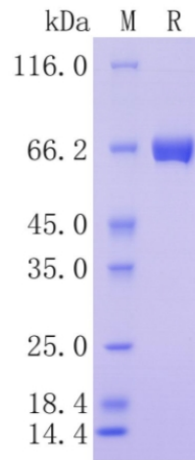
<b>Gene Name</b>	A2M alpha-2-macroglobulin [ Homo sapiens (human) ]
<b>Official Symbol</b>	A2M
<b>Synonyms</b>	A2M; alpha-2-macroglobulin; CPAMD5; FWP007; S863 7; alpha-2-M; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; A2MD; S863-7; DKFZp779B086;
<b>Gene ID</b>	2
<b>mRNA Refseq</b>	NM_000014
<b>Protein Refseq</b>	NP_000005
<b>MIM</b>	103950
<b>UniProt ID</b>	P01023

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**Protein on SDS-  
PAGE under  
reducing (R)  
condition.**



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