

Recombinant Human alpha-2-macroglobulin Protein, His tagged

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

SPECIFICATION

Product Overview	Recombinant human A2M/alpha-2-macroglobulin protein (P01023) (Glu 906-Ala 1474) with a His tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	906-1474aa
Description	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.
Tag	C-His
Molecular Mass	64.3 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Storage	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.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 µg/mL in sterile water.

GENE INFORMATION

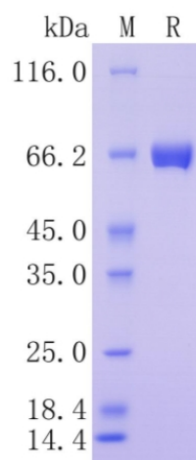
Gene Name	A2M alpha-2-macroglobulin [Homo sapiens (human)]
Official Symbol	A2M
Synonyms	A2M; alpha-2-macroglobulin; CPAMD5; FWP007; S863 7; alpha-2-M; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 5; A2MD; S863-7; DKFZp779B086;
Gene ID	2
mRNA Refseq	NM_000014
Protein Refseq	NP_000005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

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



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