

Recombinant Mouse A2m Protein, His-tagged

Cat. No. A2m-02M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse A2m Protein (Ser1022-Ala1495) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser1022-Ala1495
Description	Predicted to enable several functions, including cytokine binding activity; growth factor binding activity; and serine-type endopeptidase inhibitor activity. Acts upstream of or within stem cell differentiation. Predicted to be located in extracellular region. Predicted to be active in extracellular space. Is expressed in several structures, including brain; embryo mesenchyme; liver; meninges; and retina. Human ortholog(s) of this gene implicated in COVID-19; background diabetic retinopathy; multiple sclerosis; neurodegenerative disease (multiple); and obstructive lung disease. Orthologous to human A2M (alpha-2-macroglobulin).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 56.1 kDa Accurate Molecular Mass: 56 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	A2m alpha-2-macroglobulin [<i>Mus musculus</i> (house mouse)]
Official Symbol	A2m
Synonyms	A2M; alpha-2-macroglobulin; alpha-2-macroglobulin-P; A2mp
Gene ID	232345
mRNA Refseq	NM_175628
Protein Refseq	NP_783327
UniProt ID	Q6GQT1

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