

# Mouse ADAM9 Protein, His Tag (active enzyme, MALS verified)

Catalog # AD9-M52H3



BIOSYSTEMS  
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Surprise Inside!

## Synonym

Disintegrin and metalloproteinase domain-containing protein 9 (EC:3.4.24.-)  
Cellular disintegrin-related protein, Meltrin-gamma, Metalloprotease, disintegrin, cysteine-rich protein 9, Myeloma cell metalloproteinase, ADAM9, KIAA0021, MCMP, MDC9, MLTNG

## Source

Mouse ADAM9, His Tag(AD9-M52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 206 - Asp 697 (Accession # [Q61072](#)).  
Predicted N-terminus: Ala 206

## Molecular Characterization

ADAM9(Ala 206 - Asp 697)  
Q61072 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 55.2 kDa. The protein migrates as 70-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Supplied as 0.2  $\mu\text{m}$  filtered solution in 25mM MES, 150mM NaCl, pH6.0 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

## Storage

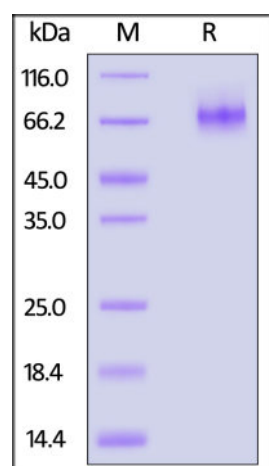
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

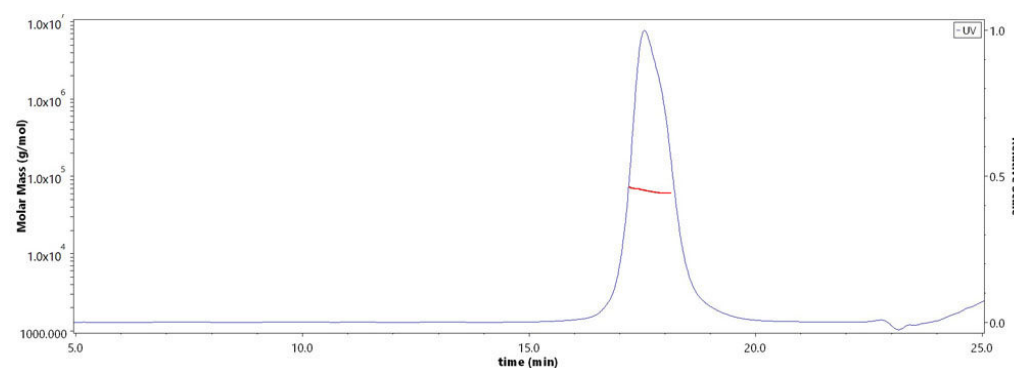


Mouse ADAM9, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity

Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH<sub>2</sub>. The specific activity is  $>3$  pmol/min/ $\mu\text{g}$  (QC tested).

## SEC-MALS



The purity of Mouse ADAM9, His Tag (Cat. No. AD9-M52H3) is more than 95% and the molecular weight of this protein is around 57-72 kDa verified by SEC-MALS.

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12/29/2023

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## Background

ADAM9 (A disintegrin and a metalloprotease 9) is a membrane-anchored protein that participates in a variety of physiological functions, primarily through the disintegrin domain for adhesion and the metalloprotease domain for ectodomain shedding of a wide variety of cell surface proteins. ADAM9 influences the developmental process, inflammation, and degenerative diseases. Recently, increasing evidence has shown that ADAM9 plays an important role in tumor biology. Overexpression of ADAM9 has been found in several cancer types and is correlated with tumor aggressiveness and poor prognosis. In addition, through either proteolytic or non-proteolytic pathways, ADAM9 promotes tumor progression, therapeutic resistance, and metastasis of cancers. Therefore, comprehensively understanding the mechanism of ADAM9 is crucial for the development of therapeutic anti-cancer strategies. In this review, we summarize the current understanding of ADAM9 in biological function, pathophysiological diseases, and various cancers. Recent advances in therapeutic strategies using ADAM9-related pathways are presented as well.

## Clinical and Translational Updates

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