

# Mouse ADAM15 / MDC15 Protein (His Tag)

Catalog Number: 51001-M08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

MDC15; metargidin

### Protein Construction:

A DNA sequence encoding the mouse ADAM15 (O88839-1) extracellular domain (Met 1-Thr 697) was expressed, with a C-terminal polyhistidine tag.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Bio Activity:

1. Measured by its ability to bind human PTK6 in a functional ELISA. 2. Measured by its ability to bind human SRC in a functional ELISA. 3. Measured by its ability to bind mouse SRC in a functional ELISA. 4. Measured by its ability to bind human LYN in a functional ELISA.

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Arg 18 & Asp 208

### Molecular Mass:

The secreted recombinant mouse ADAM15 (pro form) comprises 691 amino acids and has a calculated molecular mass of 74.6 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 80-90 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

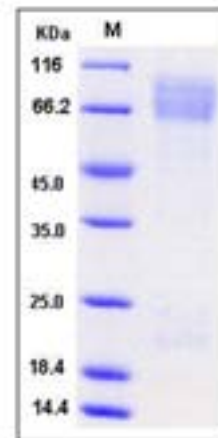
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

ADAM15, also known as Metargidin, is a type I transmembrane glycoprotein belonging to the ADAM (A Disintegrin and Metalloprotease Domain) family of proteins and is widely expressed in different tissues and cell types. Members of this family contain an amino-terminal metalloprotease domain followed by a disintegrin domain, a cysteine-rich region and a membrane proximal EGF-like domain. The disintegrin domain of ADAM15/metargidin contains an RGD tripeptide sequence, suggesting that it may potentially interact with the integrin family of proteins. ADAM15 is a transmembrane multi-domain proteins implicated in proteolysis, cell-cell and cell-matrix interactions in various disease conditions. There is also evidence supporting a role for ADAM15 in angiogenesis and angiogenesis of tumor cells, which are critical for unrestrained tumor growth and metastatic spread. Given its diverse functions, ADAM15 may represent a pivotal regulatory component of tumor progression, an important target for therapeutic intervention, or emerge as a biomarker of disease progression.

## References

1. Poghosyan Z, *et al.* (2002) Phosphorylation-dependent interactions between ADAM15 cytoplasmic domain and Src family protein-tyrosine kinases. *J Biol Chem.* 277(7): 4999-5007. 2. Carl-McGrath S, *et al.* (2005) The disintegrin-metalloproteinases ADAM9, ADAM12, and ADAM15 are upregulated in gastric cancer. *Int J Oncol.* 26(1): 17-24. 3. Najy AJ, *et al.* (2008) ADAM15 supports prostate cancer metastasis by modulating tumor cell-endothelial cell interaction. *Cancer Res.* 68(4): 1092-9.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>