

Mouse ADAM9 Protein (His Tag)

Catalog Number: 50044-M08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

AU020942, MDC9, Mltng, mKIAA0021

Protein Construction:

A DNA sequence encoding the mouse ADAM9 (Q61072) extracellular domain (Met 1-Asp 697) was expressed with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 87 % as determined by SDS-PAGE

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: Gly 30

Molecular Mass:

The secreted recombinant mouse ADAM9 consists of 679 amino acids and has a calculated molecular mass of 74.9 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 25 kDa protein in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

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

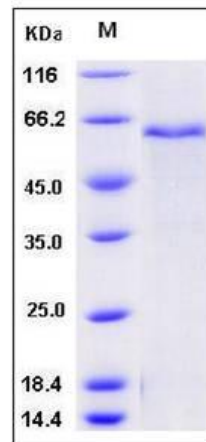
Usage Guide

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.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

A disintegrin and metalloproteinase domain 9 (ADAM9), also known as MDC9, meltrin gamma, is a member of the ADAM family of metalloproteases, which play important roles in cell-cell fusion, intracellular signaling, and other cellular functions. Like other members of the ADAM family, the integrin-binding metalloproteinase ADAM9 modulates cell-cell and cell-matrix interactions as well as ectodomain shedding of cell surface receptors and ligands, thereby modifying intracellular and extracellular signaling. As a type 1 transmembrane protein, ADAM9 has been associated with cancer development and metastases. ADAM9 is potentially an important new therapeutic target for the prevention of tumor metastases in adenoid cystic carcinoma.

References

1. Fry JL. et al., 2010, Cancer Res. 70 (20): 8187-98.
2. Caltabiano R. et al., 2011, Appl Immunohistochem Mol Morphol. 19 (3): 283-7.
3. Xu Q. et al., 2010, Tumour Biol. 1 (3): 217-24.
4. Hotoda N. et al., 2002, Biochem Biophys Res Commun. 293 (2): 800-5.

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