

Mouse ADAM9 Protein (His Tag)

Catalog Number: 50044-M08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

CORD9; MCMP; MDC9; Mltng; AU020942; MDC9; mKIAA0021; Mltng

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.

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:

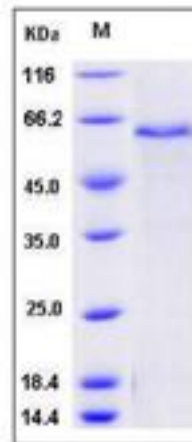
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ADAM9 (A disintegrin and metalloproteinase domain 9, MDC9, meltrin gamma), is a type 1 transmembrane protein that has been associated with cancer development and metastases. ADAM9 is consistently overexpressed in various human cancers, and plays a role in tumorigenesis in mouse models. ADAM9 cleaves and releases a number of molecules with important roles in tumorigenesis and angiogenesis, such as EGF, FGFR2iib, Tie-2, Flk-1, EphB4, CD40, VCAM-1, and VE-cadherin, and could represent a potential therapeutic target in tumors where it is highly expressed. ADAM9 belongs to a family of transmembrane, disintegrin-containing metalloproteinases involved in protein ectodomain shedding and cell-cell and cell-matrix interactions. ADAM-9 adhesive domain plays a role in regulating the motility of cells by interaction with beta1 integrins and modulates MMP synthesis.

References

- 1.Caltabiano R, *et al.* (2011) ADAM-9 expression in intestinal-type adenocarcinoma of the sinonasal tract. *Appl Immunohistochem Mol Morphol.* 19(3): 283-7.
- 2.Peduto L. (2009) ADAM9 as a potential target molecule in cancer. *Curr Pharm Des.* 15(20): 2282-7.
- 3.Zigrino P, *et al.* (2007) Role of ADAM-9 disintegrin-cysteine-rich domains in human keratinocyte migration. *J Biol Chem.* 282(42): 30785-93.

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