

Active Recombinant Human ADAM9 Protein, His&Avi-tagged, Biotin-labeled

Cat. No. ADAM9-10991H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human ADAM9, His, Avitag is expressed from human 293 cells (HEK293). It contains AA Ala 206 - Asp 697 (Accession # Q13443-1). This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag). Predicted N-terminus: Ala 206
Species	Human
Source	HEK293
ProteinLength	206-697 aa
Conjugation/Label	Biotin
Description	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

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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.

Form	Supplied as 0.2 µm filtered solution in 20 mM Tris, 500 mM NaCl, pH7.5 with glycerol as protectant.
Specificity	Protein Ratio: Passed as determined by the HABA assay/binding ELISA.
Bio-activity	Immobilized Biotinylated Human ADAM9, His, Avitag at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Izeltabart with a linear range of 0.03-1 ng/mL.
Molecular Mass	The protein has a calculated MW of 55.2 kDa. The protein migrates as 63-80 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name [ADAM9 ADAM metalloproteinase domain 9 \[Homo sapiens \(human\) \]](#)

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Official Symbol	ADAM9
Synonyms	ADAM9; ADAM metallopeptidase domain 9; a disintegrin and metalloproteinase domain 9 (meltrin gamma), cone rod dystrophy 9, CORD9; disintegrin and metalloproteinase domain-containing protein 9; KIAA0021; MCMP; MDC9; meltrin gamma; Mltng; cone rod dystrophy 9; myeloma cell metalloproteinase; cellular disintegrin-related protein; ADAM metallopeptidase domain 9 (meltrin gamma); metalloprotease/disintegrin/cysteine-rich protein 9; CORD9;
Gene ID	8754
mRNA Refseq	NM_003816
Protein Refseq	NP_003807
MIM	602713
UniProt ID	Q13443

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