

Active Recombinant Human ADAM9 Protein, His-tagged

Cat. No. ADAM9-10990H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ADAM9, His Tag 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. Predicted N-terminus: Ala 206.
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Species	Human
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Source	HEK293
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ProteinLength	206-697 aa
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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 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.
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Form	Supplied as 0.2 µm filtered solution in 20 mM Tris, 500 mM NaCl, pH7.5 with glycerol as protectant.
Bio-activity	Immobilized Human ADAM9, His Tag at 1 µg/mL (100 µL/well) can bind Izeltabart with a linear range of 0.2-16 ng/mL.
Molecular Mass	The protein has a calculated MW of 55.2 kDa. The protein migrates as 55-60 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
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)]
Official Symbol	ADAM9
Synonyms	ADAM9; ADAM metalloproteinase 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

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gamma; Mltng; cone rod dystrophy 9; myeloma cell metalloproteinase; cellular disintegrin-related protein; ADAM metalloproteinase 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

SDS-PAGE.

