

Active Recombinant Rat Adam9 Protein, His-tagged, Low endotoxin

Cat. No. ADAM9-10993H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat ADAM9 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ala 206 - Asp 697 (Accession # Q58GH6). This protein carries a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	206-697 aa
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

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strategies using ADAM9-related pathways are presented as well.

Form	Supplied as 0.2 µm filtered solution in 20 mM Tris, 500 mM NaCl, pH7.3 with glycerol as protectant.
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH ₂ . The specific activity is >70 pmol/min/µg.
Molecular Mass	The protein has a calculated MW of 55.2 kDa. The protein migrates as 60-65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.01 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% 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 a disintegrin and metalloproteinase domain 9 (meltrin gamma) [<i>Rattus norvegicus</i>]
Official Symbol	ADAM9

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Synonyms	ADAM9; a disintegrin and metalloproteinase domain 9 (meltrin gamma); MDC9;
Gene ID	57024
UniProt ID	Q58GH6

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