

Active Recombinant Mouse ADAM10 Protein, His-tagged

Cat. No. Adam10R-10986H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse ADAM10 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 215 - Glu 673 (Accession # O35598-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Thr 215
Species	Mouse
Source	HEK293
ProteinLength	215-673 aa
Description	This gene encodes a member of a disintegrin and metalloprotease (ADAM) family of endoproteases that play important roles in various biological processes including cell signaling, adhesion and migration. The encoded preproprotein undergoes proteolytic processing to generate a mature enzyme that is involved in the proteolytic release of membrane-bound proteins in a process called ectodomain shedding. Mice lacking the encoded protein die in utero with multiple defects of the developing central nervous system, somites, and cardiovascular system.
Form	Supplied as 0.2 µm filtered solution in 20 mM Tris, 500 mM NaCl, pH7.5 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 >5 pmol/min/µg.
Molecular Mass	The protein has a calculated MW of 52.5 kDa. The protein migrates as 55-65 kDa

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	when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% 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	Adam10 a disintegrin and metallopeptidase domain 10 [Mus musculus]
Official Symbol	ADAM10
Synonyms	ADAM10; a disintegrin and metallopeptidase domain 10; disintegrin and metalloproteinase domain-containing protein 10; ADAM 10; kuzbanian protein homolog; mammalian disintegrin-metalloprotease; a disintegrin and metalloprotease domain 10; a disintegrin and metalloprotease domain (ADAM) 10; kuz; MADM; kuzbanian; 1700031C13Rik;
Gene ID	11487
mRNA Refseq	NM_007399

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Protein Refseq	NP_031425
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UniProt ID	O35598
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