

Active Recombinant Human ADAM28 protein, His-tagged

Cat. No. ADAM28-212H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAM28(Leu72 & Leu191-Ala623) fused with His tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	191-623 a.a.
Description	A disintegrin and metalloprotease domain-containing protein 28 (ADAM28), also known as MDC-L, is a member of the M12B peptidase family of enzymes. It is synthesized as an approximately 80-90 kDa glycosylated proprotein that is processed to a mature form later in the secretory pathway. After the removal of the propeptide that contains a cysteine switch motif, the activated form of ADAM28 consists of a 467 aa extracellular domain (ECD) which contains a peptidase, disintegrin, cysteine-rich and EGF-like domains, followed by a 21 aa transmembrane segment and an 89 aa cytoplasmic domain. Alternative splicing generates additional isoforms with a variety of substitutions and deletions in the cysteine-rich and EGF-like domains. Within the ECD, human ADAM28 shares 73% aa sequence identity with mouse and rat ADAM28. ADAM28 is a cell surface protein that is involved in a variety of cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis, and exhibits catalytic activity to insulin-like growth factor binding protein-3. Like many members of the ADAM proteins, the disintegrin domain of ADAM28 interacts with integrin to influence cell adhesion and cell-cell interaction. ADAM28 can mediate the

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adhesion of the Jurkat cells, T-lymphoma cell line, through integrin alpha 4b1(9). R&D Systems in-house testing also indicates that ADAM28 cleaves IGFBP-3.

Predicted N Terminal Leu72 & Leu191

Form Lyophilized from a 0.2 µm filtered solution in MES and NaCl.

Bio-activity Measured by its ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. The ED50 for this effect is 0.2-1 µg/mL.

Molecular Mass Predicted Molecular Mass: 49 & 62 kDa
SDS-PAGE: 59-80 kDa, reducing conditions

Endotoxin <0.1 EU per 1 µg of the protein by the LAL method.

Purity >70%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
12 months from date of receipt, -20 to -70 centigrade as supplied.
1 month, 2 to 8 centigrade under sterile conditions after reconstitution.
3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution Reconstitute at 200 µg/mL in water.

GENE INFORMATION

Gene Name ADAM28 ADAM metallopeptidase domain 28 [Homo sapiens]

Official Symbol ADAM28

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Synonyms	ADAM28; ADAM metallopeptidase domain 28; a disintegrin and metalloproteinase domain 28; disintegrin and metalloproteinase domain-containing protein 28; ADAM23; eMDCII; MDC Lm; MDC Ls; metalloproteinase-like, disintegrin-like, and cysteine-rich protein-L; epididymial metalloproteinase-like, disintegrin-like, and cysteine-rich protein II; MDCL; MDC-L; MDC-Lm; MDC-Ls; ADAM 28; eMDC II;
Gene ID	10863
mRNA Refseq	NM_014265
Protein Refseq	NP_055080
MIM	606188
UniProt ID	Q9UKQ2