

Active Recombinant Human ADAM15 protein, His-tagged

Cat. No. ADAM15-281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADAM15(Asp207-Ser693) fused with His tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	207-693 a.a.
Description	A disintegrin and metalloproteinase 15 (ADAM15), also known as MDC15 and Metarginin, is an approximately 110 kDa transmembrane member of the M12B family of peptidases. Human ADAM15 is synthesized with a 189 amino acid (aa) propeptide that contains a cysteine switch motif. The 75 kDa activated form of human ADAM15 (after removal of the propeptide) consists of a 490 aa extracellular domain (ECD) with a peptidase, disintegrin, cysteine-rich, and EGF-like domain followed by a 21 aa transmembrane segment and a 146 aa cytoplasmic domain. Within the ECD, human ADAM15 shares 85% aa sequence identity with mouse and rat ADAM15. Alternative splicing generates multiple additional isoforms with various deletions or substitutions in the cytoplasmic domain, deletion in the propeptide and peptidase domains, or truncation at the beginning of the EGF-like domain. ADAM15 is widely expressed, including on colonic epithelial cells, smooth muscle cells, vascular endothelial cells, and it is upregulated during chronic inflammation and tumor progression. It is also expressed on spermatocytes where both propeptide and the protease domain are cleaved during spermatocyte maturation. ADAM15 promotes endothelial permeability,

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T cell adhesion, MMP-9 production and activation, and tumor cell metastasis. It binds to Integrin alpha V beta 3 and mediates the proteolytic shedding of cell surface N-Cadherin, E-Cadherin, MICB, CD23/Fc epsilon RII, and FGF R2 (IIb).

Predicted N Terminal	Asp207
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 0.5-3 µg/mL
Molecular Mass	Predicted Molecular Mass: 53 kDa SDS-PAGE: 67-79 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, 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 500 µg/mL in water.

GENE INFORMATION

Gene Name	ADAM15 ADAM metallopeptidase domain 15 [Homo sapiens]
Official Symbol	ADAM15

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Synonyms	ADAM15; ADAM metallopeptidase domain 15; a disintegrin and metalloproteinase domain 15 (metargidin); disintegrin and metalloproteinase domain-containing protein 15; MDC15; metargidin; MDC-15; ADAM 15; metalloprotease RGD disintegrin protein; metalloproteinase-like, disintegrin-like, and cysteine-rich protein 15;
Gene ID	8751
mRNA Refseq	NM_003815
Protein Refseq	NP_003806
MIM	605548
UniProt ID	Q13444

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