

## Recombinant Mouse Adam17 protein, His-tagged

Cat. No. Adam17-256M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Adam17 protein (Pro18-Asp563), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).

**Species** Mouse

**Source** HEK293

**ProteinLength** 546

**Description** Disintegrin and metalloproteinase domain-containing protein 17 (ADAM17), a member of the ADAM protein family of disintegrins and metalloproteases, is also known as TNF-alpha convertase, TNF-alpha-converting enzyme and CD156b, which contains one disintegrin domain and one peptidase M12B domain. ADAM17 can cleave the membrane-bound precursor of TNF-alpha to its mature soluble form. ADAM17 is also responsible for the proteolytical release of soluble JAM3 from endothelial cells surface (By similarity) and proteolytic release of several other cell-surface proteins, including p75 TNF-receptor, interleukin 1 receptor type II, p55 TNF-receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein. Furthermore, ADAM17 acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation.

**Form** Lyophilized from 0.22 um filtered solution in 50 mM MES, 150 mM NaCl, pH6.5, 10% trehalose.

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<b>Molecular Mass</b>	The protein has a calculated MW of 63.4 kDa. The protein migrates as 19 kDa and 20 kDa (Propeptide), 55-66 kDa (Mature-ADAM17) and 75-94 kDa (Pro-ADAM17) under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per ug by the LAL method.
<b>Purity</b>	>85% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <ul style="list-style-type: none"> <li>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</li> <li>-70 centigrade for 3 months under sterile conditions after reconstitution.</li> </ul>
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Adam17</a>
<b>Official Symbol</b>	<a href="#">Adam17</a>
<b>Synonyms</b>	ADAM17; a disintegrin and metalloproteinase domain 17; disintegrin and metalloproteinase domain-containing protein 17; ADAM 17; TNF-alpha convertase; TNF-alpha converting enzyme; TNF-alpha-converting enzyme; a disintegrin and metalloproteinase domain 17; a disintegrin and metalloprotease domain 17; Tace; CD156b
<b>Gene ID</b>	<a href="#">11491</a>

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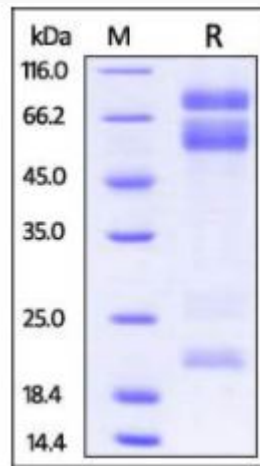
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mRNA Refseq [NM\\_009615](#)

Protein Refseq [NP\\_033745](#)

UniProt ID [Q9Z0F8](#)

**SDS-PAGE of  
Adam17-256M**



Mouse ADAM17, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

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