

## Active Recombinant Human ADAM17

Cat. No. ADAM17-593H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ADAM17 was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	215 to 651
<b>Description</b>	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene functions as a tumor necrosis factor-alpha converting enzyme; binds mitotic arrest deficient 2 protein; and also plays a prominent role in the activation of the Notch signaling pathway.
<b>Form</b>	Lyophilised
<b>Bio-activity</b>	Activity was tested using the synthetic peptide, Abz-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg-Dpa(Dnp)-NH <sub>2</sub> , as a substrate. Specific activity = 280 units/mg.
<b>Molecular Mass</b>	62 kDa
<b>AA Sequence</b>	RADPDPMKNTCKLLVADHRFYRYMGRGEESTTTNYLIELIDRVDDIYRNTSWDNA

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GFKGYGIQIEQIRILKS PQEVKPGEKHYNMAKSYPNEEKDAWDVKMLLEQFSFDIAE  
 EASKVCLAHLFTYQDFDMGTLGLAY VGSPRANSHGGVCPKAYYSPVGKKNIYLN  
 GLTSTKNYGKTILTKEADLVTTHELGHNFGEHDP DGLAECAPNEDQGGKYVMYPI  
 AVSGDHENKMFNSCSKQSIYKTIESKAQECFQERSNKVCGNSR VDEGEEDPGI  
 MYLNNDTCCNS DCTLKEGVQC SDRNSPCKNCQFETAQKKCQEAINATCKGVSY  
 CTGNSSECPPPGNAEDD TVCLDLGKCK DGKCIPFCEREQQLESCACNETDNSCKV  
 CCRDLSGRCVPYVDAEQKNLFL RKGKPCTVGF CDMNGKCEKRVQDVIER

**Purity** >90% by SDS-PAGE.

**Applications** Functional Studies; SDS-PAGE

**Storage** Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

**Reconstitution** Reconstitute with sterile deionized water at 0.1g protein/μ For long term storage, it is recommended to add a carrier protein (0.1% BSA). Avoid multiple freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [ADAM17 ADAM metalloproteinase domain 17 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** ADAM17

**Synonyms** ADAM17; CSVP; TACE; NISBD; ADAM18; CD156B; ADAM metalloproteinase domain 17; disintegrin and metalloproteinase domain-containing protein 17; TNF-alpha convertase; snake venom-like protease; TNF-alpha converting enzyme; ADAM metalloproteinase domain 18; tumor necrosis factor, alpha, converting enzyme; NP\_003174.3; EC 3.4.24.86

**Gene ID** [6868](#)

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<b>mRNA Refseq</b>	NM_003183
<b>Protein Refseq</b>	NP_003174
<b>MIM</b>	603639
<b>UniProt ID</b>	P78536
<b>Chromosome Location</b>	2p25
<b>Pathway</b>	Activated NOTCH1 Transmits Signal to the Nucleus; BDNF signaling pathway; Constitutive Signaling by NOTCH1 PEST Domain Mutants
<b>Function</b>	Notch binding; PDZ domain binding; interleukin-6 receptor binding

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