

Active Recombinant Human ADAM17

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

SPECIFICATION

Product Overview	Recombinant Human ADAM17 was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	215 to 651
Description	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.
Form	Lyophilised
Bio-activity	Activity was tested using the synthetic peptide, Abz-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg-Dpa(Dnp)-NH ₂ , as a substrate. Specific activity = 280 units/mg.
Molecular Mass	62 kDa
AA Sequence	RADPDPMKNTCKLLVVADHRFYRYMGRGEESTTTNYLIELIDRVDDIYRNTSWDNA

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GFKGYGIQIEQIRILKS PQEVKPGGEKHYNMAKSYPNEEKDAWDVKMLLEQFSFDIAE
EASKVCLAHLFTYQDFDMGTLGLAY VGSPRANSHGGVCPKAYYSPVGKKNIYLS
GLTSTKNYGKTILTKEADLVTTHLGHNFGEHDP DGLAECAPNEDQGGKYVMYPI
AVSGDHENNKMFNSCSKQSIYKTIESKAQECFQERSNKKVCGNSR VDEGEECDPGI
MYLNNDTCCNS DCTLKEGVQC SDRNSPCKKNCQFETAQKKCQEAINATCKGVSY
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/μl. 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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mRNA Refseq	NM_003183
Protein Refseq	NP_003174
MIM	603639
UniProt ID	P78536
Chromosome Location	2p25
Pathway	Activated NOTCH1 Transmits Signal to the Nucleus; BDNF signaling pathway; Constitutive Signaling by NOTCH1 PEST Domain Mutants
Function	Notch binding; PDZ domain binding; interleukin-6 receptor binding

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