

# Recombinant Human ADAM Metallopeptidase Domain 17, His-tagged

**Cat. No.** ADAM17-592H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human glycosylated catalytic domain (aa Pro1-Val477) of ADAM17/TACE secreted as mature, active enzyme from <i>insect cells</i> , and purified using a C-terminal His-tag, 36kDa.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Protein Length</b>	1-477 a.a.
<b>Description</b>	ADAM17/TACE is a soluble or membrane-bound metalloproteinase primarily responsible for activation of proTNF- $\alpha$ , while also targeting proteins such as fractalkine, amyloid precursor proteins, and CD40. ADAM17/TACE is involved in cancer, vascular disorders, and inflammatory diseases such as rheumatoid arthritis and focal ischemic injury. The catalytic domain of ADAM17/TACE is able to cleave proTNF- $\alpha$ and can be used in inhibitor screening.
<b>Concentration</b>	0.45 g/ $\mu$
<b>Purity</b>	$\geq$ 90% (SDS-PAGE).
<b>Formulation</b>	Liquid. In 22.5mM TRIS, pH 7.5, containing 4.5M ZnCl <sub>2</sub> , 0.0045% Brij-35 and 10% glycerol.

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<b>Specific Activity:</b>	2'430 U/g enzyme. One unit will hydrolyze one pmole Mca-PLAQAV-Dpa-RSSSR-NH <sub>2</sub> substrate (10 $\mu$ M) per minute at 37°C, in 25mM TRIS, pH 9.0.
<b>Application</b>	Study enzyme kinetics, cleave target substrates, screen inhibitors.
<b>Storage</b>	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.
<b>Pathways</b>	Alzheimer"s disease; Epithelial cell signaling in Helicobacter pylori infection; Notch signaling pathway; Signaling by EGFR; Signalling by NGF

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ADAM17 ADAM metallopeptidase domain 17 [ Homo sapiens ]</a>
<b>Synonyms</b>	ADAM metallopeptidase domain 17; CSVP; TACE; ADAM18; CD156B; MGC71942; ADAM17; disintegrin and metalloproteinase domain-containing protein 17; ADAM 17; EC 3.4.24.86; TNF-alpha convertase; snake venom-like protease; TNF-alpha converting enzyme; TNF-alpha-converting enzyme; ADAM metallopeptidase domain 18;tumor necrosis factor, alpha, converting enzyme; a disintegrin and metalloprotease domain 17; CD156b antigen
<b>Gene ID</b>	<a href="#">6668</a>
<b>mRNA Refseq</b>	<a href="#">NM_003183</a>
<b>Protein Refseq</b>	<a href="#">NP_003174</a>
<b>MIM</b>	<a href="#">603639</a>
<b>UniProt ID</b>	<a href="#">P78536</a>

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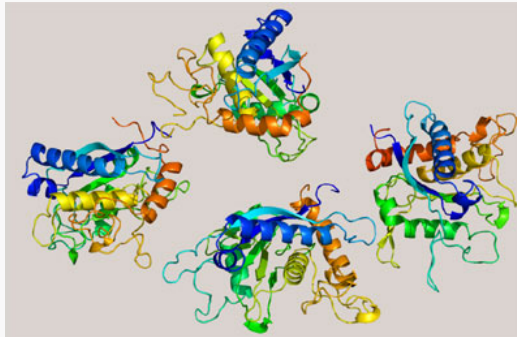
**Chromosome  
Location**

2p25

**Function**

PDZ domain binding; SH3 domain binding; integrin binding; interleukin-6 receptor binding; metal ion binding; metalloendopeptidase activity; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; protein binding; zinc ion binding

**PDB rendering based  
on 1bkc**



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