Recombinant Human ADAM Metallopeptidase Domain 17, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human glycosylated catalytic domain (aa Pro1-Val477) of ADAM17/TACE secreted as mature, active enzyme from*insect cells,*and purified using a C-terminal His-tag, 36kDa.
Species	Human
Source	Insect Cells
ProteinLength	1-477 a.a.
Description	ADAM17/TACE is a soluble or membrane-bound metalloproteinase primarily responsible for activation of proTNF-α, 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-α and can be used in inhibitor screening.
Concentration	0.45 g/μ
Purity	≥90% (SDS-PAGE).
Formulation	Liquid. In 22.5mM TRIS, pH 7.5, containing 4.5μM ZnCl2, 0.0045% Brij-35 and 10% glycerol.

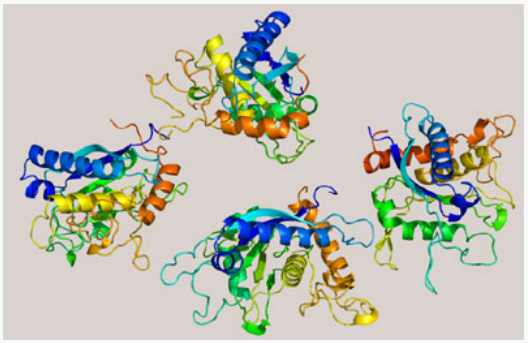
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Specific Activity:	2'430 U/μg enzyme. One unit will hydrolyze one pmole Mca-PLAQAV-Dpa-RSSSR-NH2 substrate (10μM) per minute at 37°C, in 25mM TRIS, pH 9.0.
Application	Study enzyme kinetics, cleave target substrates, screen inhibitors.
Storage	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.
Pathways	Alzheimer"s disease; Epithelial cell signaling in Helicobacter pylori infection; Notch signaling pathway; Signaling by EGFR; Signalling by NGF

GENE INFORMATION

Gene Name	ADAM17 ADAM metallopeptidase domain 17 [Homo sapiens]
Synonyms	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
Gene ID	6668
mRNA Refseq	NM_003183
Protein Refseq	NP_003174
MIM	603639
UniProt ID	P78536

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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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