

Recombinant Mouse ADA17 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51996

Size: 10ug, 100ug

Protein Name: Disintegrin and metalloproteinase domain-containing protein 17 (ADAM 17) (EC 3.4.24.86) (TNF-alpha convertase) (TNF-alpha-converting enzyme) (CD antigen CD156b)

Synonym: Adam17, Tace

UniProt ID: Q9Z0F8

UniProt Link: www.uniprot.org/uniprotkb/Q9Z0F8/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 827 AA

Molecular Weight: 93 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRRRLILTLVPFVLAPRPPEEAGSGSHPRLEKLSLLSDYDILSLANIQQHSIRKRDLQSATHLETLL
TFSALKRHFCLYLTSSTERFSQNLRVVVVDGKEESEYSVKWQNFFSGHVVGEPDSRVLAHIGDDDDV
TVRINTDGAEYNVEPLWRFVNDTKDKRMLVYKSEDIKDFSRLQSPKVCGYLNADSEELLPKGLIDRE
PSEEFVRRVKRRAEPNPLKNTCKLLVVADHRFYKYMGRGEESTTTNYLIELIDRVDDIYRNTSWDNA
GFKGYGVQIEQIRILKSPQEVKPGERHFNMAKSFPNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHL
FTYQDFDMGTLGLAYVGSPPRANSHGGVCPKAYYNPTVKKNIYLNLSGLTSTKNYGKTILTKEADLVTT
HELGHNFGEAHDPDGLAEAPNEDQGGKYVMYPIAVSGDHENKMFNSCSKQSIYKTIESKAQECF
QERSNKVCGNSRVDEGEECDPGIMYLNNDTCCNSDCTLKPGVQCSDRNSPCKNCQFETAQKKC
QEAINATCKGVSCTGNSSECPPPGDAEDDTVCLDLGKCKAGKCIPFCKREQELESCACVDTDNSC
KVCCRNLSGPCVPYVDAEQKNLFLRKGPCTVGFCDMNGKCEKRVQDVIERFWDFIDQLSINTFGK
FLADNIVGSVLVFLIFWIPFSILVHCVDKLDKQYESLSLFHHSNIEMLSMDSASVRIIKPFPAPQTP
GRLQALQPAAMMPVPAAPKLDHQRMDTIQEDPSTDSHADDDGFEEKDPFPNSSTAASFEGLTDH
PVTRSEKAASFQKLQRQSRVDSKETEC

3. Buffer Composition



Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Disintegrin and metalloproteinase domain-containing protein 17 (ADAM 17) (EC 3.4.24.86) (TNF-alpha convertase) (TNF-alpha-converting enzyme) (CD antigen CD156b) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Cleaves the membrane-bound precursor of TNF to its mature soluble form. Responsible for the proteolytic release of soluble JAM3 from endothelial cells surface. Plays a role in the proteolytic processing of ACE2 (By similarity). Responsible for the 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 (PubMed:10799547, PubMed:11108241). Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called notch extracellular truncation (NEXT) (PubMed:10882063). Plays a role in hemostasis through shedding of GP1BA, the platelet glycoprotein Ib alpha chain (PubMed:12907434). Mediates the proteolytic cleavage of LAG3, leading to release the secreted form of LAG3 (PubMed:17245433). Mediates the proteolytic cleavage of IL6R, leading to the release of secreted form of IL6R (By similarity). Mediates the proteolytic cleavage and shedding of FCGR3A upon NK cell stimulation, a mechanism that allows for increased NK cell motility and detachment from opsonized target cells.; Transmembrane metalloprotease which mediates the ectodomain shedding of a myriad of transmembrane proteins including adhesion proteins, growth factor precursors and cytokines important for inflammation and immunity (PubMed:10799547, PubMed:10882063). Cleaves the membrane-bound precursor of TNF to its mature soluble form. Responsible for the proteolytic release of soluble JAM3 from endothelial cells surface. Responsible for the 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 (PubMed:10799547, PubMed:11108241). Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation (NEXT) (PubMed:10882063). Plays a role in the proteolytic processing of ACE2 (By similarity). Plays a role in hemostasis through shedding of GP1BA, the platelet glycoprotein Ib alpha chain (PubMed:12907434). Mediates the proteolytic cleavage of LAG3, leading to release the secreted form of LAG3 (PubMed:17245433). Mediates the proteolytic cleavage of IL6R, leading to the release of secreted form of IL6R. Mediates the proteolytic cleavage and shedding of FCGR3A upon NK cell stimulation, a mechanism that allows for increased NK cell motility and detachment from opsonized target cells (By similarity). Cleaves TREM2, resulting in shedding of the TREM2 ectodomain (By similarity).

Subcellular Localization: [Isoform Long]: Cell membrane; Single-pass type I membrane protein.; [Isoform Short]: Secreted.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer- composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.