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# Product Information

## MemDX™ Membrane Protein Human ADAM17 (ADAM metallopeptidase domain 17) Full Length

Cat. No.: **MPC1527K**
This product is for research use only and is not intended for diagnostic use.

This product is a 93 kDa Human ADAM17 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
ADAM17

**Protein Length**
Full length

**Protein Class**
Protease

**Molecular Weight**
93 kDa

**TMD**
1

**Sequence**
MRQSLLFLTSVVPFVLAPRPPDDPGFGPHQRLEKLDSLLSDYDILSLSNI
QQHSVRKRDLQTSTHVETLLTFSALKRHFKLYLTSSTERFSQNFKVVVVD
GKNESEYTVKWQDFFTGHVVGEPDSRVLAHIRDDDVIIRINTDGAEYNIE
PLWRFVNDTKDKRMLVYKSEDIKNVSRLQSPKVCGYLKVDNEELLPKGLV
DREPPEELVHRVKRRADPDPMKNTCKLLVVADHRFYRYMGRGEESTTTNY
LIELIDRVDDIYRNTSWDNAGFKGYGIQIEQIRILKSPQEVKPGEKHYNM
AKSYPNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTLGL
AYVGSPRANSHGGVCPKAYYSPVGKKNIYLNSGLTSTKNYGKTILTKEAD
LVTTHELGHNFGAEHDPDGLAECAPNEDQGGKYVMYPIAVSGDHENNKMF
SNCSKQSIYKTIESKAQECFQERSNKVCGNSRVDEGEECDPGIMYLNNDT
CCNSDCTLKEGVQCSDRNSPCCKNCQFETAQKKCQEAINATCKGVSYCTG
NSSECPPPGNAEDDTVCLDLGKCKDGKCIPFCEREQQLESCACNETDNSC
KVCCRDLSGRCVPYVDAEQKNLFLRKGKPCTVGFCDMNGKCEKRVQDVIE
RFWDFIDQLSINTFGKFLADNIVGSVLVFSLIFWIPFSILVHCVDKKLDK
QYESLSLFHPSNVEMLSSMDSASVRIIKPFPAPQTPGRLQPAPVIPSAPA
APKLDHQRMDTIQEDPSTDSHMDEDGFEKDPFPNSSTAAKSFEDLTDHPV
TRSEKAASFKLQRQNRVDSKETEC

## Product Description

### Expression Systems

HEK293

### Tag

Based on specific requirements

### Protein Format

Detergent or based on specific requirements

### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

ADAM17

### Full Name

ADAM metallopeptidase domain 17

### Introduction

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 encoded preproprotein is proteolytically processed to generate the mature protease. The encoded protease functions in the ectodomain shedding of tumor necrosis factor-alpha, in which soluble tumor necrosis factor-alpha is released from the membrane-bound precursor. This protease also functions in the processing of numerous other substrates, including cell adhesion proteins, cytokine and growth factor receptors and epidermal growth factor (EGF) receptor ligands, and plays a prominent role in the activation of the Notch signaling pathway. Elevated expression of this gene has been observed in specific cell types derived from psoriasis, rheumatoid arthritis, multiple sclerosis and Crohn's disease patients, suggesting that the encoded protein may play a role in autoimmune disease. Additionally, this protease may play a role in viral infection through its cleavage of ACE2, the cellular receptor for SARS-CoV and SARS-CoV-2.

### Alternative Names

ADAM17; CSVP; TACE; NISBD; ADAM18; CD156B; NISBD1; disintegrin and metalloproteinase domain-containing protein 17; ADAM metallopeptidase domain 18; TNF-alpha convertase; TNF-alpha convertase enzyme; TNF-alpha converting enzyme; a disintegrin and metalloproteinase 17; cartilage snake venom-like protease; snake venom-like protease; tumor necrosis factor, alpha, converting enzyme; ADAM metallopeptidase domain 17

### Gene ID

6868

### UniProt ID

P78536

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