

# Recombinant human ADAM10 protein

Catalog Number: ATGP3448

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

214-672aa

### UniProt No.

O14672

### NCBI Accession No.

NP\_001101

### Alternative Names

Disintegrin and metalloproteinase domain-containing protein 10 isoform 1, ADAM10, AD10, AD18, CD156c, HsT18717, kuz, MADM, RAK

### Additional Information

N- terminal Sequence Analysis: Thr-Thr-Ser-Ala-Glu

## PRODUCT SPECIFICATION

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### Molecular Weight

51.6 kDa (467aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant human ADAM10 protein

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## Description

ADAM10, as known as disintegrin and metalloproteinase domain-containing protein 10 isoform 1, is a member of the ADAM family that contains a disintegrin and metalloprotease-like domain. This protein is a sheddase, and has a broad specificity for peptide hydrolysis reactions. Also, it cleaves ephrin, within the ephrin/eph complex, formed between two cell surfaces. When ephrin is freed from the opposing cell, the entire ephrin/eph complex is endocytosed. In neurons, ADAM10 is the most important enzyme with alpha-secretase activity for proteolytic processing of the amyloid precursor protein. Recombinant human ADAM10, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

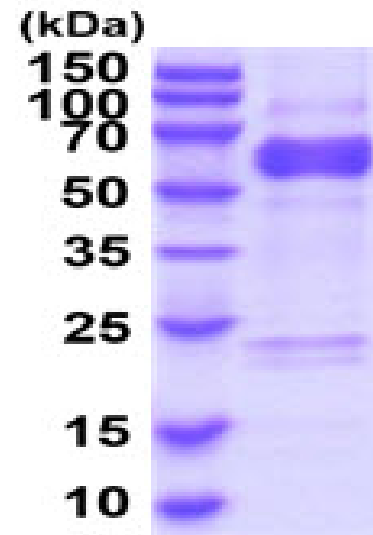
TTSAEKNTCQ LYIQTDHLFF KYYGTTREAVI AQISSHVKAI DTIYQTTDFS GIRNISFMVK RIRINTTADE KDPTNPFRRFP  
 NIGVEKFLEL NSEQNHDDYC LAYVFTDRDF DDGVLGLAWV GAPSGSSGGI CEKSKLYSDG KKKSLNTGII TVQNYGSHVP  
 PKVSHITFAH EVGHNFGSPH DSGTECTPGE SKNLGQKENG NYIMYARATS GDKLNNNKFS LCSIRNISQV LEKRRNNCFV  
 ESGQPICGNG MVEQGEEDC GYSDQCKDEC CFDANQPEGR KCKLKPGKQC SPSQGPCCTA QCAFKSKSEK  
 CRDDSDCARE GICNGFTALC PASDPKPNFT DCMRHTQVCI NGQCAGSICE KYGLEECTCA SSDGKDDKEL CHVCCMKKMD  
 PSTCASTGSV QWSRHFSGRT ITLQPGSPCN DFRGYCDVFM RCRLVDADGP LARLKAIFS PELYENIAEL EHHHHHH

## General References

Park GB., et al, (2015) Invest. Ophthalmol. Vis. Sci. 56:5162-5173.  
 Zingoni A., et al, (2015) J. Immunol. 195:736-748.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)