

## ADAM10 Human

*A Disintegrin and Metalloproteinase Domain 10 Human Recombinant*  
RCP0012

### Product Overview

Name ADAM10 Human

#### Description

A Disintegrin and Metalloproteinase Domain 10 Human Recombinant

Accession (Primary) [O14672](#)

#### Synonyms

Kuz, AD10, MADM, CD156c, HsT18717, ADAM metalloproteinase domain 10, A disintegrin and metalloproteinase domain 10, Mammalian disintegrin-metalloprotease, Kuzbanian protein homolog, CDw156, ADAM 10, ADAM10.

#### Introduction

ADAM10 is part of the ADAM family which are cell surface proteins with a distinctive structure possessing both potential adhesion and protease domains. ADAM10 cleaves many proteins including TNF-alpha and E-cadherin. ADAM10 cleaves the membrane-bound precursor of tnf-alpha at 76- ala-|-val-77 to its mature soluble form. ADAM10 is in charge for the proteolytic release of several other cell-surface proteins, including heparin-binding epidermal growth-like factor, ephrin-a2 and for constitutive and regulated alpha-secretase cleavage of amyloid precursor protein. ADAM10 is involved in the normal cleavage of the cellular prion protein. ADAM10 is involved in the cleavage of the adhesion molecule I1 at the cell surface and in the release of membrane vesicles, suggesting a vesicle-based protease activity. ADAM10 controls the proteolytic processing of notch and mediates lateral inhibition during neurogenesis.

#### Source

Sf9, Baculovirus cells.

#### Physical Appearance

Sterile Filtered colorless solution.

#### Formulation

ADAM10 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

#### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

#### Purity

Greater than 85.0% as determined by SDS-PAGE.

#### Amino acid sequence

TTSAEKNTCQ LYIQTDHLFF KYYGTREAVI AQISSHVKAI DTIYQTDFS GIRNISFMVK RIRINTTADE KDPTNPFRRP  
NIGVEKFLEL NSEQNHDDYC LAYVFTDRDF DDGVLGLAWV GAPSGSSGGI CEKSKLYSDG KKKSLNTGII  
TVQNYGSHVP PKVSHITFAH EVGHNFGSPH DSGTECTPGE SKNLGQKENG NYIMYARATS GDKLNNNKFS  
LCSIRNISQV LEKRRNNCFV ESGQPICGNG MVEQGEECDC GYSDQCKDEC CFDAQPEGR KCKLKPGKQC  
SPSQGPCCTA QCAFKSKSEK CRDDSDCARE GICNGFTALC PASDPKPNFT DCNRHTQVCI NGQCAGSICE  
KYGLEECTCA SSDGKDDKEL CHVCCMKKMD PSTCASTGSV QWSRHFSGRT ITLQPGSPCN DFRGYCDVFM  
RCRLVDADGP LARLKKAIFS PELYENIAE L EHHHHHH

#### Precautions

ADAM10 Human is for research use only and not for use in diagnostic or therapeutic procedures.

**Target Information:** ( [O14672](#) )