

# Product information

## ADAM10, 214-672aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3448

**Full name:** Disintegrin and metalloproteinase domain-containing protein 10 isoform 1

**NCBI Accession No.:** NP\_001101

**Synonyms:** ADAM10, AD10, AD18, CD156c, HsT18717, kuz, MADM, RAK

**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.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

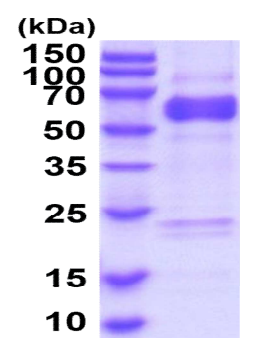
**Molecular Weight:** 51.6kDa (467aa)  
50-70kDa (SDS-PAGE under reducing conditions.)

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

**Purity:** > 85% by SDS - PAGE.

**Concentration:** 0.5mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1 $\mu$ g of protein (determined by LAL method)



15% SDS-PAGE (3 $\mu$ g)

### Sequences of amino acids:

TTSAEKNTCQ LYIQTDHLFF KYGTREAVI AQISSHVKA I DTIYQTDFD GIRNISFMVK RIRINTTADE KDPTNPFRRP NIGVEKFLEL  
 NSEQNHDDYC LAYVFTDRDF DDGVLGLAWV GAPSGSSGGI CEKSKLYSDG KKKSLNTGII TVQNYGSHVP PKVSHITFAH EVGHNFGSPH  
 DSGTECTPGE SKNLGQKENG NYIMYARATS GDKLNNNKFS LCSIRNISQV LEKKNRNCV F ESGQPICGNG MVEQGEEDC GYSDQCKDEC  
 CFDANQPEGR KCKLPGKQC SPSQGPCCTA QCAFKSKSEK CRDSDCARE GICNGFTALC PASDPKPNFT DCONRHTQVC I NGQCAGSICE  
 KYGLEECTCA SSDGKDDKEL CHVCCMKKMD PSTCASTGSV QWSRHFSGRT ITLQPGSPCN DFRGYCDVFM RCRLVDADGP LARLKKAI FS  
 PELYENIAEL EHHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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**General references:**

Park GB., *et al*, (2015) *Invest. Ophthalmol. Vis. Sci.* 56:5162-5173.

Zingoni A., *et al*, (2015) *J. Immunol.* 195:736-748.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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