
Product Data Sheet

Product Name: ADAM10 Human, Sf9

Cat. No.: GP22676

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

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

Amino Acid Sequence T TSAEKNTCQ LYIQTDHLFF KYYGTTREAVI AQISSHVKAI DTIYQTTFDS
GIRNISFMVK RIRINTTADE KDPTNPFRRP NIGVEKFLEL NSEQNHDDYC
LAYVFTDRDF DDGVLGLAWV GAPSGSSGGI CEKSKLYSDG KKKSLNTGII
TVQNYGSHVP PKVSHITFAH EVGHNFGSPH DSGTECTPGE SKNLGQKENG
NYIMYARATS GDKLNNNKFS LCSIRNISQV LEKKRNCFV ESGQPICGNG
MVEQGEEDC GYSDQCKDEC CFDANQPEGR KCKLKPGKQC SPSQGPCCTA
QCAFKSKSEK CRDDSDCARE GICNGFTALC PASDPKPNFT DCMRHTQVCI
NGQCAGSICE KYGLEECTCA SSDGKDDKEL CHVCCMKKMD PSTCASTGSV
QWSRHFSGRT ITLQPGSPCN DFRGYCDVFM RCRLVDADGP LARLKKAIFS
PELYENIAEL EHHHHHH

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

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

ADAM10 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 467 amino acids (214-672 aa) and having a molecular mass of 51.6kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). ADAM10 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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