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Datasheet for ABIN3088234
ADAM10 Protein (AA 20-672) (His tag)

Overview

Quantity:	1 mg
Target:	ADAM10
Protein Characteristics:	AA 20-672
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADAM10 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: QYGNPLNKYI RHYEGLSYNV DSLHQKHQRA KRAVSHEDQF LRLDFHAHGR HFNLRMKRDT
SLFSDEFKVE TSNKVLDYDT SHIYTGHIYG EEGSFSHGVS IDGRFEGFIQ TRGGTFYVEP
AERYIKDRTL PFHSVIYHED DINYPHKYGP QGGCADHSVF ERMRYQMTG VEEVTQIPQE
EHAANGPELL RKKRTTSAEK NTCQLYIQTDL HFFKYGGTR EAVIAQISSH VKAIDTIYQT
TDFSGIRNIS FMVKRIRINT TADEKDPTNP FRFPNIGVEK FLELNSEQNH DDYCLAYVFT
DRDFDDGVLG LAWVGAPSGS SGGICEKSKL YSDGKKKSLN TGIITVQNYG SHVPPKVSHI
TFAHEVGHNF GSPHDSGTEC TPGESKNLGQ KENGNIMYA RATSGDKLNN NKFSLCSIRN
ISQVLEKKRN NCFVESGQPI CGNGMVEQGE ECDCGYSDQC KDECCFDANQ PEGRKCKLKP
GKQCSPSQGP CCTAQCAFKS KSEKCRDDSD CAREGICNGF TALCPASDPK PNFTDCNRHT
QVCINGQCAG SICEKYGLEE CTCASSDGKD DKELCHVCCM KKMDPSTCAS TGSVQWSRHF
SGRTITLQPG SPCNDFRGCY DVFMRCRLVD ADGPLARLKK AIFSPELYEN IAE

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human ADAM10 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	ADAM10
Alternative Name:	ADAM10 (ADAM10 Products)
Background:	<p>Cleaves the membrane-bound precursor of TNF-alpha at '76-Ala-I-Val-77' to its mature soluble form. Responsible for the proteolytical release of soluble JAM3 from endothelial cells surface. Responsible 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 (APP). Contributes to the normal cleavage of the cellular prion protein. Involved in the cleavage of the adhesion molecule L1 at the cell surface and in released membrane vesicles, suggesting a vesicle-based protease activity. Controls also the proteolytic processing of Notch and mediates lateral inhibition during neurogenesis. Responsible for the FasL ectodomain shedding and for the generation of the remnant ADAM10-processed FasL (FasL APL) transmembrane form. Also cleaves the ectodomain of the integral membrane proteins CORIN and ITM2B. May regulate the EFNA5-EPHA3 signaling. {ECO:0000269 PubMed:11477090, ECO:0000269 PubMed:11786905, ECO:0000269 PubMed:12475894, ECO:0000269 PubMed:16239146, ECO:0000269 PubMed:17557115, ECO:0000269 PubMed:19114711, ECO:0000269 PubMed:20592283, ECO:0000269 PubMed:21288900}.</p>
Molecular Weight:	74.3 kDa Including tag.
UniProt:	O14672
Pathways:	Notch Signaling , EGFR Signaling Pathway

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)