Datasheet for ABIN3114173

ADAM17 Protein (AA 215-824) (rho-1D4 tag)

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1 Image

Overview

Quantity:	1 mg
Target:	ADAM17
Protein Characteristics:	AA 215-824
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADAM17 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	RADPDPMKNT CKLLVVADHR FYRYMGRGEE STTTNYLIEL IDRVDDIYRN TSWDNAGFKG YGIQIEQIRI LKSPQEVKPG EKHYNMAKSY PNEEKDAWDV KMLLEQFSFD IAEEASKVCL AHLFTYQDFD MGTLGLAYVG SPRANSHGGV CPKAYYSPVG KKNIYLNSGL TSTKNYGKTI LTKEADLVTT HELGHNFGAE HDPDGLAECA PNEDQGGKYV MYPIAVSGDH ENNKMFSNCS KQSIYKTIES KAQECFQERS NKVCGNSRVD EGEECDPGIM YLNNDTCCNS DCTLKEGVQC SDRNSPCCKN CQFETAQKKC QEAINATCKG VSYCTGNSSE CPPPGNAEDD TVCLDLGKCK DGKCIPFCER EQQLESCACN ETDNSCKVCC RDLSGRCVPY VDAEQKNLFL RKGKPCTVGF CDMNGKCEKR VQDVIERFWD FIDQLSINTF GKFLADNIVG SVLVFSLIFW IPFSILVHCV DKKLDKQYES LSLFHPSNVE MLSSMDSASV RIIKPFPAPQ TPGRLQPAPV IPSAPAAPKL DHQRMDTIQE DPSTDSHMDE DGFEKDPFPN SSTAAKSFED LTDHPVTRSE KAASFKLQRQ NRVDSKETEC **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 ADAM17 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 receival 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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.

Product Details

Grade:	Crystallography grade

Target Details

Target:	ADAM17
Alternative Name:	ADAM17 (ADAM17 Products)
Background:	Cleaves the membrane-bound precursor of TNF-alpha 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 p75 TNF-receptor, interleukin 1 receptor type II, p55 TNF-receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein. Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation (NEXT). Plays a role in the proteolytic processing of ACE2. {ECO:0000269|PubMed:12441351, ECO:0000269|PubMed:20592283, ECO:0000269|PubMed:24226769, ECO:0000269|PubMed:24227843}.
Molecular Weight:	69.4 kDa Including tag.
UniProt:	P78536
Pathways:	Notch Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Response to Growth Hormone Stimulus

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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

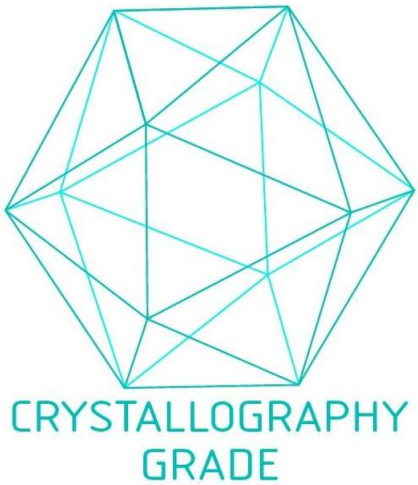

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process