antibodies

## Datasheet for ABIN3111579 EGF Protein (AA 23-1207) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	EGF
Protein Characteristics:	AA 23-1207
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EGF protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

Sequence:	PQHWSCPEGT LAGNGNSTCV GPAPFLIFSH GNSIFRIDTE GTNYEQLVVD AGVSVIMDFH
	YNEKRIYWVD LERQLLQRVF LNGSRQERVC NIEKNVSGMA INWINEEVIW SNQQEGIITV
	TDMKGNNSHI LLSALKYPAN VAVDPVERFI FWSSEVAGSL YRADLDGVGV KALLETSEKI
	TAVSLDVLDK RLFWIQYNRE GSNSLICSCD YDGGSVHISK HPTQHNLFAM SLFGDRIFYS
	TWKMKTIWIA NKHTGKDMVR INLHSSFVPL GELKVVHPLA QPKAEDDTWE PEQKLCKLRK
	GNCSSTVCGQ DLQSHLCMCA EGYALSRDRK YCEDVNECAF WNHGCTLGCK NTPGSYYCTC
	PVGFVLLPDG KRCHQLVSCP RNVSECSHDC VLTSEGPLCF CPEGSVLERD GKTCSGCSSP
	DNGGCSQLCV PLSPVSWECD CFPGYDLQLD EKSCAASGPQ PFLLFANSQD IRHMHFDGTD
	YGTLLSQQMG MVYALDHDPV ENKIYFAHTA LKWIERANMD GSQRERLIEE GVDVPEGLAV
	DWIGRRFYWT DRGKSLIGRS DLNGKRSKII TKENISQPRG IAVHPMAKRL FWTDTGINPR
	IESSSLQGLG RLVIASSDLI WPSGITIDFL TDKLYWCDAK QSVIEMANLD GSKRRRLTQN
	DVGHPFAVAV FEDYVWFSDW AMPSVMRVNK RTGKDRVRLQ GSMLKPSSLV VVHPLAKPGA

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	DPCLYQNGGC EHICKKRLGT AWCSCREGFM KASDGKTCLA LDGHQLLAGG EVDLKNQVTP
	LDILSKTRVS EDNITESQHM LVAEIMVSDQ DDCAPVGCSM YARCISEGED ATCQCLKGFA
	GDGKLCSDID ECEMGVPVCP PASSKCINTE GGYVCRCSEG YQGDGIHCLD IDECQLGEHS
	CGENASCTNT EGGYTCMCAG RLSEPGLICP DSTPPPHLRE DDHHYSVRNS DSECPLSHDG
	YCLHDGVCMY IEALDKYACN CVVGYIGERC QYRDLKWWEL RHAGHGQQQK VIVVAVCVVV
	LVMLLLLSLW GAHYYRTQKL LSKNPKNPYE ESSRDVRSRR PADTEDGMSS CPQPWFVVIK
	EHQDLKNGGQ PVAGEDGQAA DGSMQPTSWR QEPQLCGMGT EQGCWIPVSS DKGSCPQVME
	RSFHMPSYGT QTLEGGVEKP HSLLSANPLW QQRALDPPHQ MELTQ
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human EGF Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.

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	<ol> <li>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.</li> <li>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.</li> </ol>
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

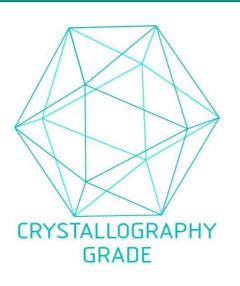
## Target Details

Target:	EGF
Alternative Name:	EGF (EGF Products)
Background:	EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. Can induce neurite outgrowth in motoneurons of the pond snail Lymnaea stagnalis in vitro (PubMed:10964941). {ECO:0000269 PubMed:10964941, ECO:0000269 PubMed:17671655}.
Molecular Weight:	132.8 kDa Including tag.
UniProt:	P01133
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation
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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be

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Application Details	
	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)

Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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