Datasheet for ABIN3115349

MIA3 Protein (AA 23-1144) (His tag)

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Overview

Quantity:	2 mg
Target:	MIA3
Protein Characteristics:	AA 23-1144
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIA3 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	QLDPSTGRRF SEHKLCADDE CSMLMYRGEA LEDFTGPDCR FVNFKKGDPV YVYYKLARGW PEVWAGSVGR TFGYFPKDLI QVVHEYTKEE LQVPTDETDF VCFDGGRDDF HNYNVEELLG FLELYNSAAT DSEKAVEKTL QDMEKNPELS KEREPEPEPV EANSEESDSV FSENTEDLQE QFTTQKHHSH ANSQANHAQG EQASFESFEE MLQDKLKVPE SENNKTSNSS QVSNEQDKID AYKLLKKEMT LDLKTKFGST ADALVSDDET TRLVTSLEDD FDEELDTEYY AVGKEDEENQ EDFDELPLLT FTDGEDMKTP AKSGVEKYPT DKEQNSNEED KVQLTVPPGI KNDDKNILTT WGDTIFSIVT GGEETRDTMD LESSSSEEEK EDDDDALVPD SKQGKPQSAT DYSDPDNVDD GLFIVDIPKT NNDKEVNAEH HIKGKGRGVQ ESKRGLVQDK TELEDENQEG MTVHSSVHSN NLNSMPAAEK GKDTLKSAYD DTENDLKGAA IHISKGMLHE EKPGEQILEG GSESESAQKA AGNQMNDRKI QQESLGSAPL MGDDHPNASR DSVEGDALVN GAKLHTLSVE HQREELKEEL VLKTQNQPRF SSPDEIDLPR ELEDEVPILG RNLPWQQERD VAATASKQMS EKIRLSEGEA KEDSLDEEFF HHKAMQGTEV GQTDQTDSTG GPAFLSKVEE DDYPSEELLE DENAINAKRS

	KEKNPGNQGR QFDVNLQVPD RAVLGTIHPD PEIEESKQET SMILDSEKTS ETAAKGVNTG GREPNTMVEK ERPLADKKAQ RPFERSDFSD SIKIQTPELG EVFQNKDSDY LKNDNPEEHL KTSGLAGEPE GELSKEDHEN TEKYMGTESQ GSAAAEPEDD SFHWTPHTSV EPGHSDKRED LLIISSFFKE QQSLQRFQKY FNVHELEALL QEMSSKLKSA QQESLPYNME KVLDKVFRAS ESQILSIAEK MLDTRVAENR DLGMNENNIF EEAAVLDDIQ DLIYFVRYKH STAEETATLV MAPPLEEGLG GAMEEMQPLH EDNFSREKTA ELNVQVPEEP THLDQRVIGD THASEVSQKP NTEKDLDPGP VTTEDTPMDA IDANKQPETA AEEPASVTPL EN **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 MIA3 Protein (raised in E. Coli) 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:	Two step purification of proteins expressed in bacterial culture: 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

Product Details

	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:	MIA3
Alternative Name:	MIA3 (MIA3 Products)
Background:	Required for collagen VII (COL7A1) secretion by loading COL7A1 into transport carriers. May participate in cargo loading of COL7A1 at endoplasmic reticulum exit sites by binding to COPII coat subunits Sec23/24 and guiding SH3-bound COL7A1 into a growing carrier. Does not play a role in global protein secretion and is apparently specific to COL7A1 cargo loading. However, it may participate in secretion of other proteins in cells that do not secrete COL7A1. {ECO:0000269|PubMed:19269366}.
Molecular Weight:	126.8 kDa Including tag.
UniProt:	Q5JRA6

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 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

Handling

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)

