

Datasheet for ABIN3093820

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



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1 Image

Overview

Quantity:	1 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 QVVEHYTKKE LQVPTDETDF VCFDGGRRDDF HNYNVEELLG
FLELYNSAAT DSEKAVEKTL QDMEKNPELS KEREPEPEPV EANSEESDSV FSENTEDLQE
QFTTQKHSH ANSQANHAQG EQASFESFEE MLQDKLKVPE SENNKTSNSS QVSNEQDKID
AYKLLKKEMT LDLKTKFGST ADALVSDDT TRLVTSLEDD FDEELDTEYY AVGKEDEENQ
EDFDELPLLT FTDGEDMKTP AKSGVEKYPT DKEQNSNEED KVQLTVPPGI KNDDKNILTT
WGD TIFSIVT GGEETRD TMD LESSSSEEEK EDDDDALVPD SKQGK PQSAT DYSDPDNVDD
GLFIVDIPKT NNDKEVNAEH HIKGKGRGVQ ESKRGLVQDK TELEDENQEG MTVHSSVHSN
NLNSMPAAEK GKDTLKSAYD DTENDLKGAA IHISKGMLHE EKPGEQILEG GSESESAQKA
AGNQMNDRKI QQESLGSAPL MGDDHPNASR DSVEGDALVN GAKLHTLSVE HQREELKEEL
VLKTQNQPRF SSPDEIDLPR ELEDEVPI LG RNLPWQQERD VAATASKQMS EKIRLSEGEA
KEDSLDEEFF HHKAMQGTEV GQTDQTDSTG GPAFLSKVEE DDYPSEELLE DENAINAKRS

KEKNPGNQGR QFDVNLQVPD RAVLGTIHPD PEIEESKQET SMILDSEKTS ETAAKGVNTG
GREPNTMVEK ERPLADKKAQ RPFERSDFSD SIKIQTPELG EVFQNKDSY LKNDNPEEHL
KTSGLAGEPE GELSKEDHEN TEKYMGTESQ GSAAAEPEDD SFHWTPHTSV EPGHSDKRED
LLIISFFKE QQSLQRFQKY FNVHELEALL QEMSSKLKSA QQESLPYNME KVLDKVFRAS
ESQILSIAEK MLDTRVAENR DLGMNENNIF EAAVLDDIQ DLIYFVRYKH STAETATLV
MAPPLEEGLG GAMEEMQPLH EDNFSREKTA ELNVQVPEEP THLDQRVIGD THASEVSQKP
NTEKDLDPGP VTTEDETPMDA 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 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 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 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

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)

Images



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