

Datasheet for ABIN3134109

Merlin Protein (AA 1-596) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	Merlin (NF2)
Protein Characteristics:	AA 1-596
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Merlin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: MAGAIASRMS FSSLKRKQPK TFTVRIVTMD AEMEFNCEMK WKGKDLFDLV CRTLGLRETW
 FFGLQYTIKD TVAWLKMDKK VLDHDVSKEE PVTFHFLAKF YPENAEELV QEITQHLFFL
 QVKKQILDEK VYCPPEASVL LASYAVQAKY GDYDPSVHKR GFLAQEELLP KRVINLYQMT
 PEMWEERITA WYAEHRGRAR DEAEMEYLKI AQDLEMYGVN YFTIRNKKGT ELLLGVDALG
 LHIYDPENRL TPKISFPWNE IRNISYSDE FTIKPLDKKI DVFKFNSSKL RVNKLILQLC
 IGNHDLFMRR RKADSLEVQQ MKAQAREEKA RKQMERQRLA REKQMREEAE RTRDELERRL
 LQMKEEATMA NEALMRSEET ADLLAEKAQI TEEAKLLAQ KAAEAQEMQ RIKATAIRTE
 EEKRLMEQKV LEAEVLALKM AEESEERRAKE ADQLKQDLQE AREAERRAKQ KLLIATKPT
 YPPMNPPIPP LPPDIPSFDI IADSLSFDFK DTDKRLSME IEKEKVEYME KSKHLQEQLN
 ELKTEIEALK LKERETALDV LHSESSDRGG PSSKHNTIKK LTLQSAKSRV AFEEEL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Mouse Nf2 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 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: Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade: Crystallography grade

Target Details

Target:	Merlin (NF2)
Alternative Name:	Nf2 (NF2 Products)
Background:	Probable regulator of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway, a signaling pathway that plays a pivotal role in tumor suppression by restricting proliferation and promoting apoptosis. Along with WWC1 can synergistically induce the phosphorylation of LATS1 and LATS2 and can probably function in the regulation of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway. May act as a membrane stabilizing protein. May inhibit PI3 kinase by binding to AGAP2 and impairing its stimulating activity. Suppresses cell proliferation and tumorigenesis by inhibiting the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex (By similarity). Plays a role in lens development and is required for complete fiber cell terminal differentiation, maintenance of cell polarity and separation of the lens vesicle from the corneal epithelium. {ECO:0000250, ECO:0000269 PubMed:20181838}.
Molecular Weight:	70.7 kDa Including tag.
UniProt:	P46662
Pathways:	Cell-Cell Junction Organization

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:	Protein has not been tested for activity yet. 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

Handling

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