

Datasheet for ABIN7563278

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



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### Overview

Quantity:	1 mg
Target:	Merlin (NF2)
Protein Characteristics:	AA 1-596
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Merlin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Nf2 Protein expressed in mammalian cells.
Sequence:	<p>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 DVKFNSSKL RVNKLILQLC  IGNHDLFMRR RKADSLEVQQ MKAQAREEKA RKQMERQLA REKQMREEAE RTRDELERRL  LQMKEEATMA NEALMRSEET ADLLAEKAQI TEEAKLLAQ KAAEAQEMQ RIKATAIRTE  EEKRLMEQKV LEAEVLALKM AESERRAKE ADQLKQDLQE AREAERRAKQ KLEIATKPT  YPPMNPPIPP LPPDIPSFDI IADSLSFDFK DTDMMKRLSME IEKEKVEYME KSKHLQEQLN  ELKTEIEALK LKERETALDV LHSESSDRGG PSSKHNTIKK LTLQSAKSRV AFEEEL <b>Sequence</b>  <b>without tag. The proposed Purification-Tag is based on experiences with the expression</b></p>

**system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

### Target:

Merlin (NF2)

### Alternative Name:

Nf2 ([NF2 Products](#))

### Background:

Merlin (Moesin-ezrin-radixin-like protein) (Neurofibromin-2) (Schwannomin),FUNCTION: 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|UniProtKB:P35240, ECO:0000269|PubMed:20181838}.

### Target Details

Molecular Weight:	69.8 kDa
UniProt:	<a href="#">P46662</a>
Pathways:	<a href="#">Cell-Cell Junction Organization</a>

### 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.
Restrictions:	For Research Use only

### Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months