

Merlin Protein, Mouse, Recombinant (His & Trx)

General Information

Synonyms:	Nf-2;Neurofibromin-2;Nf2;Moesin-ezrin-radixin-like protein;Merlin;Schwannomin
Protein Construction:	1-320 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P46662
Molecular Weight:	55.9 kDa (predicted)
AA Sequence:	MAGAIASRMSFSSSLKRKQPKFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCRTLGLRETWFFGLQYTIKDTVA WLKMDKKVLDHDSKEEPVTFHFLAKFYFENAEELVQEITQHLLFLLQVKKQILDEKVYCPPEASVLLASYAV QAKYGDYDPSVHKGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMY GVNYFTIRNKKGTPELLLGVLDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVN KLILQLCIGNHDLFMRRRKADSLEVQQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

A DRUG SCREENING EXPERT

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. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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