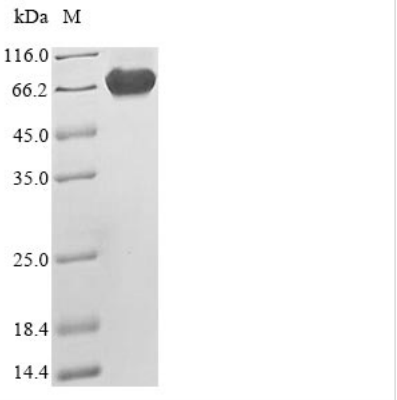
Recombinant Human Merlin (NF2)

Product Code	CSB-EP015741HU
Relevance	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.
Abbreviation	Recombinant Human NF2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P35240
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MAGAIASRMSFSSLKRKQPKTFTVRIVTMDAEMEFNCEMKWKGKDLFDLVCR TLGLRETWFFGLQYTIKDTVAWLKMDKKVLDHDVSKEEPVTFHFLAKFYPENA EEELVQEITQHLFFLQVKKQILDEKIYCPPEASVLLASYAVQAKYGDYDPSVHK RGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQ DLEMYGVNYFAIRNKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYS DKEFTIKPLDKKIDVFKFNSSKLRVNKLILQLCIGNHDLFMRRRKADSLEVQQM KAQAREEKARKQMERQRLAREKQMREEAERTRDELERRLLQMKEEATMANE ALMRSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTEEEKRLM EQKVLEAEVLALKMAEESERRAKEADQLKQDLQEAREAERRAKQKLLEIATKP TYPPMNPIPAPLPPDIPSFNLIGDSLSFDFKDTDMKRLSMEIEKEKVEYMEKSK HLQEQLNELKTEIEALKLKERETALDILHNENSDRGGSSKHNTIKKLTLQSAKSR VAFFEEL
Research Area	Cancer
Source	E.coli
Target Names	NF2
Protein Names	Moesin-ezrin-radixin-like protein Neurofibromin-2 Schwannomerlin Schwannomin SCH
Expression Region	1-595aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info	N-terminal 6xHis-tagged
Mol. Weight	73.7 kDa
Protein Length	Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human NF2 was expressed with the amino acid range of 1-595. The theoretical molecular weight of the NF2 protein is 73.7 kDa. This NF2 recombinant protein is manufactured in e.coli. The NF2 coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant NF2 protein in following stages of expression and purification.

Merlin, also known as neurofibromin 2 (NF2), is a tumor suppressor protein that plays a critical role in regulating cell proliferation and growth. NF2 belongs to the Ezrin/Radixin/Moesin (ERM) protein family and is primarily found at the cell membrane, where it interacts with various membrane-associated proteins. NF2 is involved in cell adhesion, motility, and signaling pathways. Its main function is to suppress the development of tumors by inhibiting cell division and promoting contact-dependent inhibition of proliferation. Mutations in the NF2 gene can lead to neurofibromatosis type 2, a genetic disorder characterized by the development of benign tumors in the nervous system. Research on NF2 spans multiple areas, including cancer biology, cell signaling, and the development of therapeutic strategies for NF2-related conditions.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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