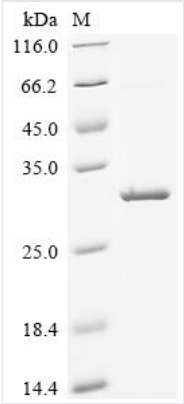
Podocin (NPHS2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Podocin (NPHS2), Recombinant Protein
Full Product Name	Recombinant Human Podocin (NPHS2), Partial
Product Gene Name	NPHS2 recombinant protein
Sequence	CVKVVQEYER VIIFRLGHLL PGRAKGPGLF FFLPCLDTYH KVDLRLQTLE IPFHEVALDS VTCIWGIKVE RIEIKDVRLP AGLQHSLAVE AEAQRQAKVR MIAAEAEKAA SESLRMAAEI LSGTPAAVQL RYLHTLQSLS TEKPSTVVLP LPFDLLNCLS SPSNRTQGSL PFPSPSKPVE PLNPKKKDSP ML
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.
Purity/Purification	Greater than 85% as determined by SDS-PAGE. (lot specific)
Preparation and 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 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	42,201 Da
Sequence Positions	124-315aa; Partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	Chromosome: 1; NC_000001.10 (179519674..179545084, complement). Location: 1q25.2
OMIM	600995
3D Structure	ModBase 3D Structure for Q9NP85
Species	Homo sapiens (Human)
Tag	C-terminal 6xHis-tagged
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 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Product Categories/Family for NPHS2 recombinant protein	Cell Biology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NPHS2 recombinant protein	Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton.
Other Notes	Small volumes of NPHS2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NPHS2 purchase	MBS9022194 is a recombinant protein targeting NPHS2. Also known as Recombinant Human Podocin (NPHS2), Partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of NPHS2 recombinant protein
(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPHS2. It may not necessarily be applicable to this product.

NCBI GI #	7657615
NCBI GeneID	7827
NCBI Accession #	NP_055440.1
UniProt Primary Accession #	Q9NP85
UniProt Secondary Accession #	Q8N6Q5; B1AM32; B1AM33
UniProt Related Accession #	Q9NP85
GenBank Nucleotide #	NM_014625.2
NCBI Official Full Name	podocin
NCBI Official Synonym Full Names	nephrosis 2, idiopathic, steroid-resistant (podocin)
NCBI Official Symbol	NPHS2
NCBI Official Synonym Symbols	PDCN; SRN1
UniProt Protein Name	Podocin
Protein Family	Podocin
UniProt Gene Name	NPHS2
UniProt Entry Name	PODO_HUMAN
NCBI Protein Information	podocin
NCBI Summary for NPHS2	This gene encodes the glomerular protein podocin which plays a role in the regulation of glomerular permeability, and acts as a linker between the plasma membrane and the cytoskeleton. Defects in this gene are the cause of autosomal recessive steroid-resistant nephrotic syndrome (SRN). SRN is characterized by onset between three months and five years, resistance to steroid therapy and rapid progression to end-stage renal disease. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for NPHS2	NPHS2: Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton. Defects in NPHS2 are the cause of nephrotic syndrome type 2 (NPHS2). It is a renal disorder characterized clinically by childhood onset of proteinuria, hypoalbuminemia, hyperlipidemia, and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. The disorder is resistant to steroid treatment and progresses to end-stage renal failure in the first or second decades. Some patients show later onset of the disorder. Belongs to the band 7/mec-2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1q25.2 Cellular Component: protein complex; endoplasmic reticulum; integral to plasma membrane; plasma membrane; intercellular junction; lipid raft Molecular Function: protein binding Biological Process: actin cytoskeleton reorganization; excretion Disease: Nephrotic Syndrome, Type 2
Research Articles on NPHS2	**1.** Active proteases in nephrotic plasma lead to a podocin-dependent phosphorylation of VASP in podocytes via protease activated receptor-1.
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