

Recombinant Human NPHS2 protein, His-tagged

Cat. No. NPHS2-718H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NPHS2(Val125-Leu383) fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	125-383 a.a.
Description	Nephrosis 2 Idiopathic Steroid-Resistant (NPHS2) is a protein which has a role in the regulation of glomerular permeability, serving as a linker between the plasma membrane and the cytoskeleton. NPHS2 gene mutations cause steroid-resistant nephrotic syndrome.
Form	NPHS2 was filtered (0.4µm) and lyophilized in 30mM acetate buffer and 1mM dithiothreitol, pH 4.
Molecular Mass	30.2kDa
AA Sequence	MKHHHHHHASVKVVQEYERV IIFRLGHLLP GRAKGPGLFF FLPCLDTYHK VDLRLQTLEI PFHEIVTKDM FIMEIDAICY YRMENASLLL SSLAHVSKAV QFLVQTTMKR LLAHRSLTEI LLERKSIAQD AKVALDSVTC IWGIKVERIE IKDVRLPAGL QHSLAVEAEA QRQAKVRMIA AEAKEAASES LRMAAEILSG TPAAVQLRYL HTLQSLSTEK PSTVVLPLPF DLLNCLSSPS NRTQGSLPFP SPSKPVEPLN PKKKDSPML.

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Purity	Purity as determined by densitometric image analysis is greater than 95%.
Storage	Store lyophilized protein at -20 centigrade. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 centigrade for a limited period of time; it does not show any change after two weeks at 4 centigrade.
Reconstitution	It is recommended to add 0.1M acetate buffer pH 4.0 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10g/ml. In higher concentrations the solubility of this antigen is limited. NPHS2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

GENE INFORMATION

Gene Name	NPHS2 NPHS2, podocin [Homo sapiens]
Official Symbol	NPHS2
Synonyms	PDCN; SRN1; nephrosis 2, idiopathic, steroid-resistant (podocin)
Gene ID	7827
mRNA Refseq	NM_014625
Protein Refseq	NP_055440
MIM	604766
UniProt ID	Q9NP85

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Chromosome Location	1q25.2
Pathway	Nephrin/Neph1 signaling in the kidney podocyte, organism-specific biosystem
Function	protein binding

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