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## Product Data Sheet

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Product Name: NPHS2 Human  
 Cat. No.: GP24059  
 Batch No.: 1

### Product Data

|                     |   |                    |                       |
|---------------------|---|--------------------|-----------------------|
| Purity              | >98%  | Source             | Escherichia Coli.     |
| Physical Appearance | solid   | Shipping Condition | Shipped at Room temp. |
| Synonyms            | Nephrosis 2; Idiopathic; Steroid-Resistant (Podocin); PDCN; SRN1; Podocin; NPHS2.   |                    |                       |
| Amino Acid Sequence | <p>MKHHHHHHASVKVVQEYERV IIFRLGHLLP GRAKGPGLFF FLPCLDTYHK<br/>         VDLRLQTLEI PFHEIVTKDM FIMEIDAICY YRMENASLLL SSLAHVSKAV<br/>         QFLVQTTMKR LLAHRSLTEI LLERKSIAQD AKVALDSVTC IWGIKVERIE<br/>         IKDVRLPAGL QHSLAVEAEA QRQAKVRMIA AEA EKAASES LRMAAEILSG<br/>         TPAAVQLRYL HTLQSLSTEK PSTVVLPLPF DLLNCLSSPS NRTQGSPLPF<br/>         SPSKPVEPLN PKKKDSPML.</p>  |                    |                       |
| Solubility          | <p>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 10µg/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.</p> |                    |                       |
| Formulation         | NPHS2 was filtered (0.4µm) and lyophilized in 30mM acetate buffer and 1mM dithiothreitol, pH 4.   |                    |                       |

### Introduction

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.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at  $4^{\circ}\text{C}$  for a limited period of time; it does not show any change after two weeks at  $4^{\circ}\text{C}$ .

### Background

NPHS2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Val125-Leu383) containing 269 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 30.2kDa.

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