

Recombinant Human Podocin/NPHS2 protein (His tag)

Catalog Number:PDEH100163

 **DIA-AN®**
by Elabscience

Note: Centrifuge before opening to ensure complete recovery of vial contents.

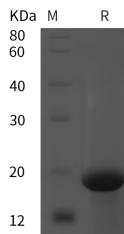
Description

Synonyms	Podocin;NPHS2;PODO_HUMAN
Species	Human
Expression Host	E.coli
Sequence	Met 222-Pro 372
Accession	Q9NP85
Calculated Molecular Weight	16.5 kDa
Observed molecular weight	20 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Podocin, encoded by the NPHS2 gene, is an approximately 50 kDa membrane protein that plays an important role in podocyte function in the kidney. Loss of Podocin function results in albuminuria, hypercholesterolemia, hypertension, and renal failure. Human Podocin consists of a 102 amino acid (aa) cytoplasmic domain, a 21 aa intramembrane segment, and a second 262 aa cytoplasmic domain. Alternative splicing generates a short isoform with a 68 aa deletion in the second cytoplasmic domain. Within aa 259-383 (the region common to both isoforms), human Podocin shares 90% aa sequence identity with mouse and rat Podocin. Podocin localizes to areas of cell-cell contact between podocytes in the renal glomerulus. It associates into oligomers and forms complexes with Nephrin, CAR, ZO-1, and the cation ion channel TRPC6. It contributes to podocyte function by regulating the activation of TRPC6 and Nephrin mediated signaling.

For Research Use Only

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Toll-free: 1-888-852-8623

Tel: 1-832-243-6086

Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com

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Multiple polymorphisms in NPHS2 are associated with steroid-resistant nephrotic syndrome.

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