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Recombinant Human PKD1 protein (His Tag)

Catalog Number: PDEH101011

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

Description

Species Human

Source E.coli-derived Human PKD1 protein Gly 177-Leu 359, with an N-terminal His

 Calculated MW
 20.0 kDa

 Observed MW
 22 kDa

 Accession
 P98161

Bio-activity Not validated for activity

Properties

Purity > 95% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

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.

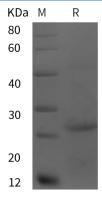
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Polycystin-1 (also PKD1) is a 500-550 kDa member of the polycystin family of proteins. It is expressed in renal tubule primary cilia, and the membrane region that forms adherens junctions. Polycystin-1 binds to polycystin-2, promoting its insertion into the cell membrane, and regulating its calcium channel activity. In conjunction with polycystin-2, it detects fluid flow and converts this information into calcium signals. It also exists in the ER, where it negatively modulates polycystin-2 mediated calcium release. Mature human polycystin-1 is a 4280 amino acid (aa), 11 transmembrane glycoprotein.