Recombinant Human PKD1 Protein (His Tag)

Catalog Number: PDEH101011

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

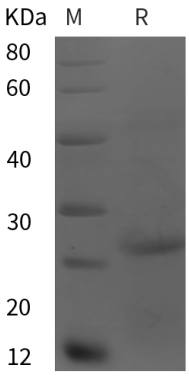
Description

Species	Human
Source	E.coli-derived Human PKD1 protein Gly177-Leu359, 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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized 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



SDS-PAGE analysis of Human PKD1 proteins, 2 μg/lane of Recombinant Human PKD1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 22 kDa.

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.

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