

PODXL Protein, Rat, Recombinant (His)

General Information

Synonyms: Podocalyxin;Podxl;Podocalyxin-like protein 1 (PC;PCLP-1);Pclp1

Protein Construction: 25-386 aa

Species: Rat

Expression Host: P. pastoris (Yeast)

Accession: Q9WTQ2

Molecular Weight: 39.8 kDa (predicted)

AA Sequence: QDNGNKTDTSIDISIDQNQDKPATNQPSNATPKSSVQPPTPTSISTSSPDPKATQSSNSSVTTTSDSTTDRTS
SSTSTVPTTNSNGQTVSSGGKSSDKITTALPTTLGPVNASSQPTDLNTSTKLPSTPTTNTASPHQPVSHSEGO
HTTVQSSASVSSSDNTLLWILTTSKPTGTSEGTQPIAISTPGITTPVSTPLQPTGSPGGTESVPTTEEFTHSTSS
WTPVVSQGPSTPSSTWTSGSYKLCDDPAIKPHEELLILNLTRDSFCKGSPNERFLELLCHSAKASFKAEDSC
ALELAPILDNQAVAVKRIVETKLSPKAVFELLKDKWDDLTEAGVIDIHLGKEGPPEVNEDRFS

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Involved in the regulation of both adhesion and cell morphology and cancer progression. Functions as an anti-adhesive molecule that maintains an open filtration pathway between neighboring foot processes in the podocyte by charge repulsion. Acts as a pro-adhesive molecule, enhancing the adherence of cells to immobilized ligands,

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increasing the rate of migration and cell-cell contacts in an integrin-dependent manner. Induces the formation of apical actin-dependent microvilli. Involved in the formation of a preapical plasma membrane subdomain to set up initial epithelial polarization and the apical lumen formation during renal tubulogenesis. Plays a role in cancer development and aggressiveness by inducing cell migration and invasion through its interaction with the actin-binding protein EZR. Affects EZR-dependent signaling events, leading to increased activities of the MAPK and PI3K pathways in cancer cells.

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