Recombinant Human PODXL Protein (SUMO,His Tag)

Catalog Number: PDEH100865

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

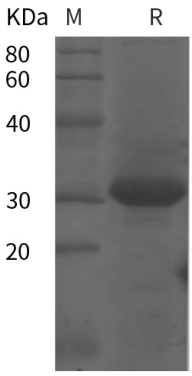
Description

Species	Human
Source	E.coli-derived Human PODXL protein Ala220-Ile431, with an N-terminal Sumo & His
Calculated MW	34.2 kDa
Observed MW	32 kDa
Accession	O00592
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 PODXL proteins, 2 μg/lane of Recombinant Human PODXL proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 32 kDa.

Background

Podocalyxin (PODXL), also known as Podocalyxin-like protein 1 (PCLP-1), is a heavily glycosylated transmembrane sialoprotein in the CD34 and Endoglycan family.Podocalyxin is expressed on glomerular and vascular endothelial cells, neurons, hematopoietic, mesenchymal, and cardiac stem cells, and metastatic carcinoma and glioblastoma tumor cells. A soluble form of Podocalyxin can be released into the urine of women with pre-eclampsia. Podocalyxin promotes platelet activation, neurite outgrowth, branching, and synaptogenesis, homing of hematopoietic progenitor cells to the bone marrow and spleen, and engraftment of mesenchymal and cardiac stem cells into ischemic heart and kidney. Its interactions with L-Selectin and E-Selectin mediate the tethering of lymphocytes and metastatic tumor cells to the vascular endothelium.

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