

Human Podoplanin / PDPN Protein, His Tag (SPR verified)

Catalog # PON-H52H3



Synonyms

Podoplanin, PDPN, Gp36

Source

Human Podoplanin, His Tag (PON-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 23 - Leu 131 (Accession # [Q86YL7-1](#)).

Predicted N-terminus: Ala 23

Molecular Characterization

Podoplanin(Ala 23 - Leu 131) Q86YL7-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 13.0 kDa. The protein migrates as 20 kDa and 27-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

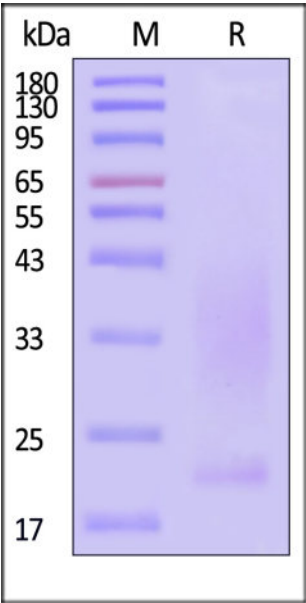
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

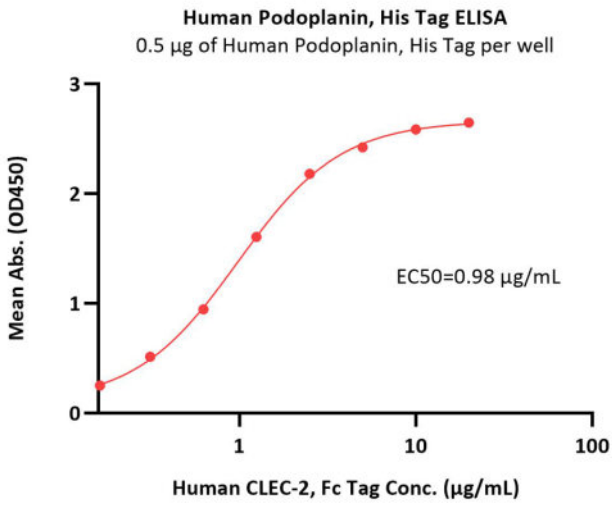
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



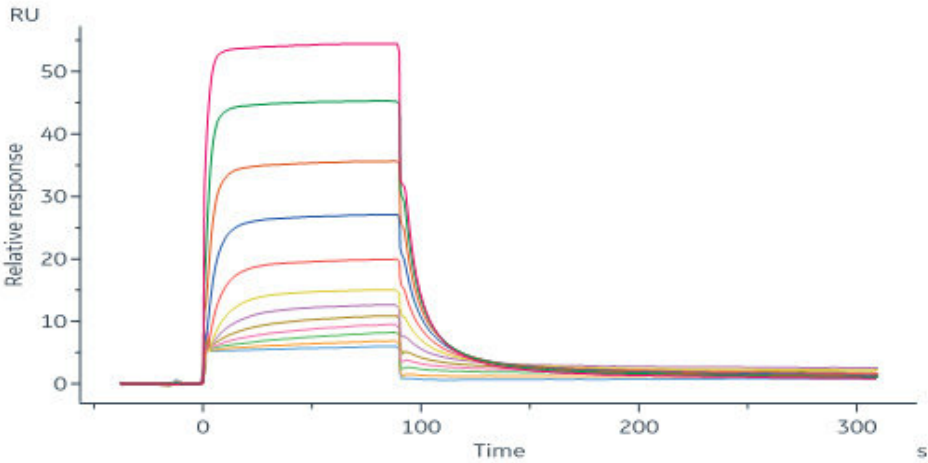
Human Podoplanin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Human Podoplanin, His Tag (Cat. No. PON-H52H3) at 5 µg/mL (100 µL/well) can bind Human CLEC-2, Fc Tag (Cat. No. CL2-H5254) with a linear range of 0.313-5 µg/mL (QC tested).

Bioactivity-SPR



Human Podoplanin, His Tag (Cat. No. PON-H52H3) immobilized on CM5 Chip can bind Human CLEC-2, Fc Tag (Cat. No. CL2-H5254) with an affinity constant of 0.495 µM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

Podoplanin (PDPN) is a type I transmembrane mucin-like glycoprotein expressed in the lymphatic endothelium. It is overexpressed in several solid tumors, such as squamous cell carcinoma, malignant mesothelioma, Kaposi sarcoma, angiosarcoma, testicular seminoma, and brain tumors. PDPN expression is associated with malignant progression, epithelial–mesenchymal transition, and metastasis.

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