Data Sheet (Cat.No.TMPY-07170)

TargetMol

PODXL Protein, Human, Recombinant (hFc)

General Information

Synonyms:	PODXL1;PCLP;PCLP-1;PC;gp135;PCLP1;PDX;Gp200
Protein Construction:	A DNA sequence encoding the Human PODXL (O00592) (Ser23-Pro461) was expressed with the Fc region of human IgG1 at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O00592
Molecular Weight:	72.06 kDa (predicted); 146.2 kDa (reducing contition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. 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. ≥ 95% as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Podocalyxin-like protein (PODXL) is a member of CD34 family proteins. It is the protein that carries many post-translational epitopes responsible for various pluripotent surface markers including TRA-1-60, TRA-1-81, GCTM2, GP200, and mAb84.Podocalyxin-like 1 (PODXL) was reported to be closely associated with the development of various cancers.KLF4/PODXL signaling pathway assumes an irreplaceable role in tumorigenesis, invasion and

metastasis of human GC and PODXL serves as an independent prognostic indicator for GC patients. PODXL may be a novel, non-invasive diagnostic biomarker for the detection of pancreatic cancer.

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