

CD155/PVR Protein, Human, Recombinant (His)

General Information

Synonyms:	NECL5;TAGE4;PVS;CD155;HVED;Necl-5;poliovirus receptor
Protein Construction:	A DNA sequence encoding the human CD155 isoform Alpha (P15151-1) extracellular domain (Met1-Asn343) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Trp 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15151-1
Molecular Weight:	36.5 kDa (predicted); 60-65 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	<ol style="list-style-type: none">1.Measured by its binding ability in a functional ELISA. Immobilized human CD155 at 2 µg/mL (100 µL/well) can bind human DNAM1, the EC50 of human DNAM1/CD226 is 50-300 ng/mL.2.Loaded Human CD226 Protein, hFc Tag on ProA Biosensor, can bind human CD155 protein, His Tag with an affinity constant of 0.87µM as determined in BLI assay (Routinely tested).3.Loaded Recombinant Human TIGIT Protein, hFc Tag on ProA Biosensor, can bind Recombinant Human CD155/PVR Protein, His Tag with an affinity constant of 0.18 µM as determined in BLI assay (Routinely tested).
Purity:	≥ 97 % 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 a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	<p>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.</p> <p><small>Actual storage temperature shall be subject to the COA.</small></p>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD155, commonly known as PVR (poliovirus receptor) and Necl-5 (nectin-like molecule-5), is a type I transmembrane single-span glycoprotein, and belongs to the nectins and nectin-like (Necl) subfamily. CD155 was originally identified based on its ability to mediate the cell attachment and entry of poliovirus (PV), an etiologic agent of the central nervous system disease poliomyelitis. The normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. CD155 may assist in an efficient humoral immune response generated within the intestinal immune system. It has been demonstrated that CD155 can be recognized and bond by DNAM-1 and CD96 which promote the adhesion, migration and NK-cell killing, and thus efficiently prime cell-mediated tumor-specific immunity. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Immune Checkpoint Detection: ELISA Antibodies Immune Checkpoint Detection: FCM Antibodies Immune Checkpoint Detection: ICC Antibodies Immune Checkpoint Detection: IP Antibodies Immune Checkpoint Detection: WB Antibodies Immune Checkpoint Proteins Immune Checkpoint Targets Immunotherapy Targeted Therapy

Reference

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