

## Overview

<b>Synonyms</b>	CD155 antigen; CD155; HVED; NECL5; Necl-5; nectin-like 5; Nectin-like protein 5; poliovirus receptor; PVR
<b>Description</b>	<p>PVR is a Type I transmembrane glycoprotein in the immunoglobulin superfamily. Commonly known as Poliovirus Receptor (PVR) due to its involvement in the cellular poliovirus infection in primates. PVR's normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. PVR/CD155 was originally isolated based on its ability to mediate polio virus attachment to host cells. The full length (or PVR alpha isoform) is synthesized as a 417 amino acid (aa) precursor that contains a 20aa signal sequence, a 323aa extracellular region, a 24aa TM segment and a 50aa cytoplasmic tail. PVR binds other molecules including Vitronectin, Nectin-3, DNAM-1/CD226, CD96, and TIGIT but does not bind homotypically. PVR is up-regulated on endothelial cells by IFN-gamma and is highly expressed on immature thymocytes, lymph node dendritic cells, and tumor cells of epithelial and neuronal origin.</p> <p>Recombinant Human PVR/CD155 Fc Chimera produced in HEK293 cells is a polypeptide chain containing 555 amino acids with the C-terminal human IgG1 Fc fragment. A fully biologically active molecule, rhPVR/CD155 has a molecular mass of 85-105 kDa, analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Accession No</b>	P15151
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Biological Activity</b>	Immobilized PVR/CD155 Fc, human (Z03435) at 5 µg/mL (100 µL/well) can bind Biotin-TIGIT Fc, Human (Z03439) with a linear range of 6.1-48.8 ng/mL when detected by Streptavidin-HRP.
<b>Sequence</b>	<pre> WPPPPTGD VVVQAPTQ VPGFLGDS VTLPCYLQ VPNMEVTH VSQLTWAR HGESGSMV VFHQQTGP SYSESKRL EFVAARLG AELRNASL RMFGLRVE DEGNYTCL FVTFFPQGS RSVDIWLR VLAKPQNT AEVQKVQL TGEPEVPM RCVSTGGR PPAQITWH SDLGGMPN TSQVPGFL SGTVTVTS LWILVPSS QVDGKNVT CKVEHESF EKPQLLTV NLTVYYPV EVSISGYD NNWYLGQN EATLTCDA RSNPEPTG YNWSTTMG PLPPFAVA QGAQLLIR PVDKPINT TLICNVTN ALGARQAE LTVQVKEG PPSEHSGI SRN           </pre>

## Properties

<b>Measured Molecular Weight</b>	85-105 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 97% as analyzed by reducing SDS-PAGE.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS, 5% trehalose and mannitol.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant PVR/CD155 Fc Chimera, Human remains stable for up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human PVR/CD155 Fc Chimera should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
<b>Note</b>	For research use only

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