

Overview

Synonyms	CD155 antigen; CD155; HVED; NECL5; Necl-5; nectin-like 5; Nectin-like protein 5; poliovirus receptor; PVR
Description	<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/D155 produced in HEK293 cells is a polypeptide chain containing 331 amino acids with C-terminal 8His. A fully biologically active molecule, rhPVR/CD155 has a molecular mass of 50-65 kDa, analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P15151
Species	Human
Source	HEK293
Biological Activity	Immobilized CD155 His, Human (Z03436) at 5µg/mL (100 µL/well) can bind TIGIT Fc, Human (Z03439) with a linear range of 2.5-10 µg/ml.
Sequence	<pre> WPPPGTGD VVQAPTQ VPGFLGDS VTLPCYLQ VPNMEVTH VSQLTWAR HGESGSM VFHQQTGP SYSESKRL EFVAARLG AELRNASL RMFGLRVE DEGNYTCL FVTFFPQGS RSVDIWLR VLAKPQNT AEVQKVQL TGEVPVMA RCVSTGGR PPAQITWH SDLGGMPN TSQVPGFL SGTVTVTS LWILVPSS QVDGKNVT CKVEHESF EKPQLLTV NLTVYYPPEVSISGYD NNWYLGQN EATLTCDA RSNPEPTG YNWSTTMG PLPPFAVA QGAQLLIR PVDKPINT TLICNVTN ALGARQAE LTVQVKEG PPSEHSGI SRNHHHHH HHH </pre>

Properties

Measured Molecular Weight	50-65 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by reducing SDS-PAGE.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, 5% trehalose and mannitol.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant PVR/CD155, His, Human remains stable for up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human PVR/CD155 should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage, it's recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Note	For research use only

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