

PVR Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702420
Synonyms:	Poliovirus receptor; Nectin-like protein 5; NECL-5
Species:	Human
Source:	E. coli Cell-free
Accession:	P15151 (W21-R417)
Gene ID:	5817
Molecular Weight:	46.7 kDa

PROPERTIES

AA Sequence	<pre> W P P P G T G D V V V Q A P T Q V P G F L G D S V T L P C Y L Q V P N M E V T H V S Q L T W A R H G E S G S M A V F H Q T Q G P S Y S E S K R L E F V A A R L G A E L R N A S L R M F G L R V E D E G N Y T C L F V T F P Q G S R S V D I W L R V L A K P Q N T A E V Q K V Q L T G E P V P M A R C V S T G G R P P A Q I T W H S D L G G M P N T S Q V P G F L S G T V T V T S L W I L V P S S Q V D G K N V T C K V E H E S F E K P Q L L T V N L T V Y Y P P E V S I S G Y D N N W Y L G Q N E A T L T C D A R S N P E P T G Y N W S T T M G P L P P F A V A Q G A Q L L I R P V D K P I N T T L I C N V T N A L G A R Q A E L T V Q V K E G P P S E H S G M S R N A I I F L V L G I L V F L I L L G I G I Y F Y W S K C S R E V L W H C H L C P S S T E H A S A S A N G H V S Y S A V S R E N S S S Q D P Q T E G T R </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PVR/CD155 Protein assumes a pivotal role in orchestrating natural killer (NK) cell adhesion and initiating NK cell effector
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functions by binding to two distinct NK cell receptors, CD96 and CD226. These receptor interactions converge at the cell-cell contact site, culminating in the formation of a mature immunological synapse between the NK cell and the target cell. This event triggers adhesion, secretion of lytic granules, interferon-gamma (IFN-gamma), and activation of cytotoxicity in activated NK cells. PVR/CD155 may additionally facilitate NK cell-target cell modular exchange and PVR transfer to the NK cell, particularly crucial in tumor cells expressing high levels of PVR. In such instances, the transfer mechanism may induce fratricide NK cell activation, providing a mechanism for tumors to evade the immune response. Furthermore, PVR/CD155 is implicated in mediating tumor cell invasion and migration. In the context of microbial infection, the protein acts as a receptor for poliovirus and potentially plays a role in the axonal transport of the virus. This function involves targeting virion-PVR-containing endocytic vesicles to the microtubular network through interaction with DYNLT1, thereby facilitating axonal retrograde transport of the virus.

Caution: Product has not been fully validated for medical applications. For research use only.

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