Recombinant PVR protein (His tag)

Catalog Number	542140
Synonyms	Nectin-like protein 5; NECL-5; CD antigen CD155
Species	Human
Expression System	E. coli
Accession	P15151
Molecular Weight	Predictes a molecular mass of 36.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	21-343
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 21-343 aa (P15151) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Poliovirus Receptor (PVR) Fragment (aa 21-343): A high-purity protein fragment encompassing the Ig-like V-type and C2-type domains, essential for studying NK cell-mediated immune responses, viral entry mechanisms, and tumor immunology. This fragment is ideal for functional assays, binding studies, and immunological research. The full-length Poliovirus Receptor (PVR), also known as Nectin-like protein 5 or CD155, is a key mediator in immune regulation and viral pathogenesis. It functions as a critical ligand for NK cell receptors CD96 and CD226, facilitating immunological synapse formation, cytotoxicity activation, and IFN-γ secretion. PVR also plays a dual role in tumor biology by promoting cancer cell invasion and enabling immunoevasion through fratricide NK cell activation. As a microbial receptor, it enables poliovirus and pseudorabies virus entry, with poliovirus exploiting PVR for axonal transport via DYNLT1 interaction. Human cytomegalovirus downregulates surface PVR to evade NK cell recognition. The protein localizes to the cell membrane as single-pass type I isoforms (Alpha, Delta) or is secreted (Beta, Gamma isoforms), highlighting its diverse roles in cellular communication and pathogen interactions.