

# Human CD155 / PVR / NECL5 Protein (Fc Tag)

Catalog Number: 10109-H02H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CD155; HVED; Necl-5; NECL5; PVS; TAGE4

### Protein Construction:

A DNA sequence encoding the extracellular domain (Met 1-Asn 343) of human CD155 (NP\_006496.3) was expressed with the C-terminal fused Fc region of human IgG1.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Bio Activity:

**Measured by its binding ability in a functional ELISA . Immobilized human DNAM1 at 2 µg/ml (100 µl/well) can bind human CD155-Fc with a linear ranger of 0.032-0.8 µg/ml.**

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Trp 21

### Molecular Mass:

The recombinant human CD155/Fc is a disulfide-linked homodimer. The reduced monomer consists of 561 amino acids and predicts a molecular mass of 61.8 kDa. As a result of glycosylation, the rhCD155/Fc monomer migrates as approximately 95-105 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

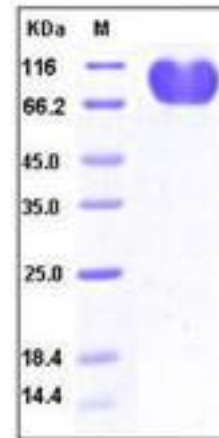
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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 bound by DNAM-1 and CD96 which promote the adhesion, migration and NK-cell killing, and thus efficiently prime cell-mediated tumor-specific immunity.

## References

1. Freistadt MS, *et al.* (2000) Hematopoietic cells from CD155-transgenic mice express CD155 and support poliovirus replication ex vivo. *Microb Pathog.* 29(4): 203-12.
2. Sato T, *et al.* (2004) Involvement of heterophilic trans-interaction of Necl-5/Tage4/PVR/CD155 with nectin-3 in formation of nectin- and cadherin-based adherens junctions. *Genes Cells.* 9(9): 791-9.
3. Kakunaga S, *et al.* (2004) Enhancement of serum- and platelet-derived growth factor-induced cell proliferation by Necl-5/Tage4/poliovirus receptor/CD155 through the Ras-Raf-MEK-ERK signaling. *J Biol Chem.* 279(35): 36419-25.

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