# Rhesus macaque CD155 / PVR Protein, Fc Tag (MALS verified)

Catalog # CD5-R5253

## Synonym

PVR,FLJ25946,PVS,CD155,TAGE4,HVED,NECL5

## Source

Rhesus macaque CD155 Protein, Fc Tag(CD5-R5253) is expressed from human 293 cells (HEK293). It contains AA Asp 28 - Asn 343 (Accession # Q0MSE6-1 ).
Predicted N-terminus: Asp 28

## Molecular Characterization

| CD155(Asp 28 - Asn 343) Q0MSE6-1 | Fc(Pro 100 - Lys 330) P01857 |
|---|---|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 60.8 kDa. The protein migrates as 70-90 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per μg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

***For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***

## Storage

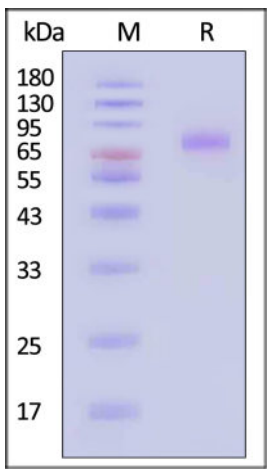
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

***Please avoid repeated freeze-thaw cycles.***

This product is stable after storage at:

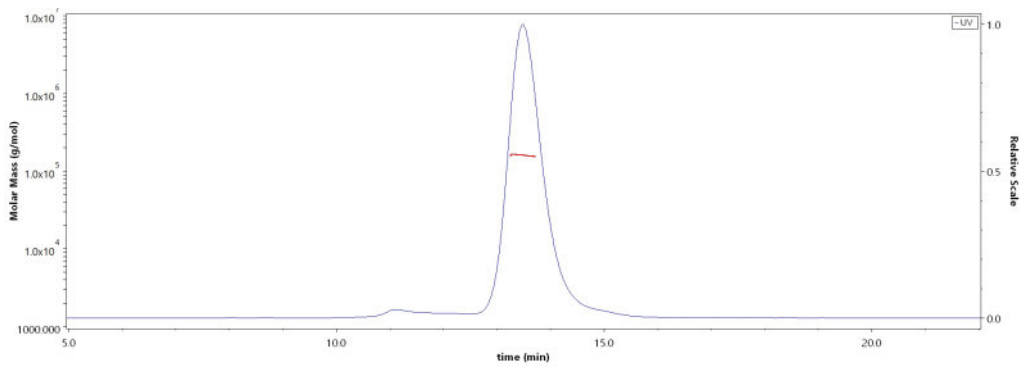
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



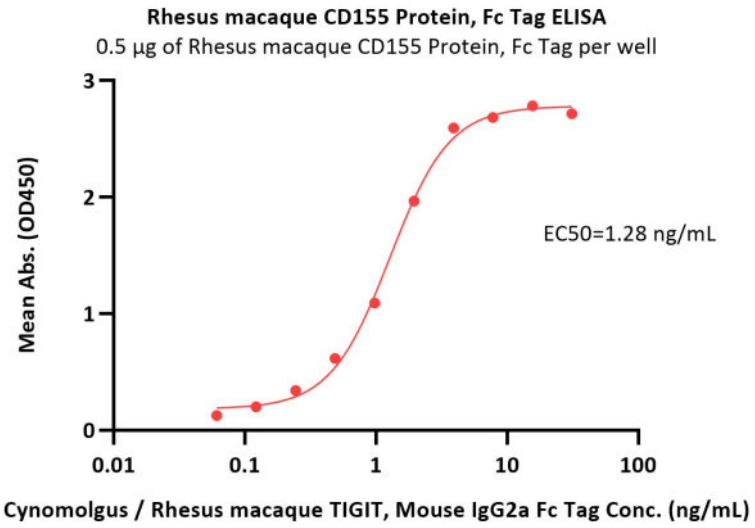

Rhesus macaque CD155 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

## SEC-MALS

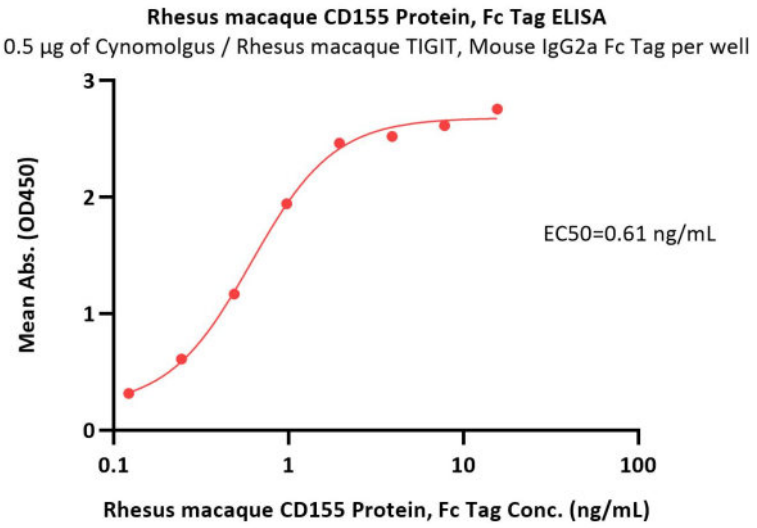



The purity of Rhesus macaque CD155 Protein, Fc Tag (Cat. No. CD5-R5253) is more than 90% and the molecular weight of this protein is around 145-175 kDa verified by SEC-MALS.
Report

## Bioactivity-ELISA




Immobilized Rhesus macaque CD155 Protein, Fc Tag (Cat. No. CD5-R5253) at 5 μg/mL (100 μL/well) can bind Cynomolgus / Rhesus macaque TIGIT, Mouse IgG2a Fc Tag (Cat. No. TIT-C5253) with a linear range of 0.06-2 ng/mL (QC tested).




Immobilized Cynomolgus / Rhesus macaque TIGIT, Mouse IgG2a Fc Tag (Cat. No. TIT-C5253) at 5 μg/mL (100 μL/well) can bind Rhesus macaque CD155 Protein, Fc Tag (Cat. No. CD5-R5253) with a linear range of 0.1-1 ng/mL (Routinely tested).

## Background

CD155 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, CD155's normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. CD155/PVR was originally isolated based on its ability to mediate polio virus attachment to host cells. The fulllength (or CD155 alpha isoform) is synthesized as a 417 amino acid (aa) precursor that contains a 20 aa signal sequence, a 323 aa extracellular region, a 24 aa TM segment and a 50 aa cytoplasmic tail. The extracellular region contains one N terminal V type and two C2 type Ig like domains.
CD155 is a transmembrane protein with 3 extracellular immunoglobulin-like domains, D1-D3, where D1 is recognized by the virus. Low resolution structures of CD155 complexed with poliovirus have been obtained using electron microscopy while a high resolution structures of theectodomain D1 and D2 of CD155 were solved by x-ray crystallography.

## Clinical and Translational Updates