



### Synonym

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

### Source

Mouse CD155, Mouse IgG2a Fc Tag(CD5-M5254) is expressed from human 293 cells (HEK293). It contains AA Asp 29 - Leu 348 (Accession # [Q8K094-1](#)).

Predicted N-terminus: Asp 29

### Molecular Characterization

CD155(Asp 29 - Leu 348) Q8K094-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 61.8 kDa. The protein migrates as 80-120 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 0.1 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and 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

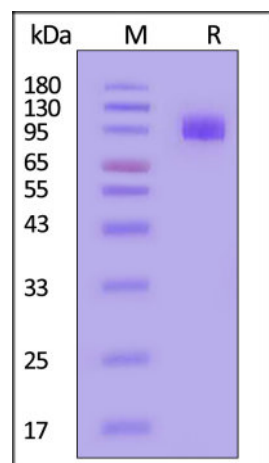
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

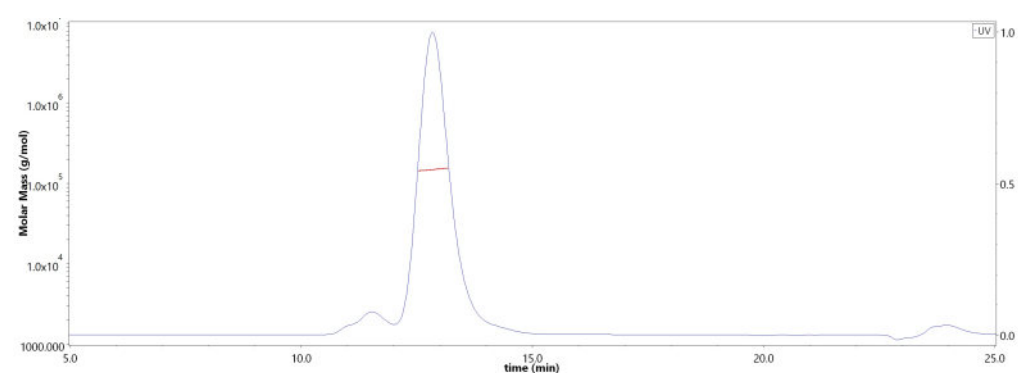
### SDS-PAGE



Mouse CD155, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Bioactivity-ELISA

### SEC-MALS

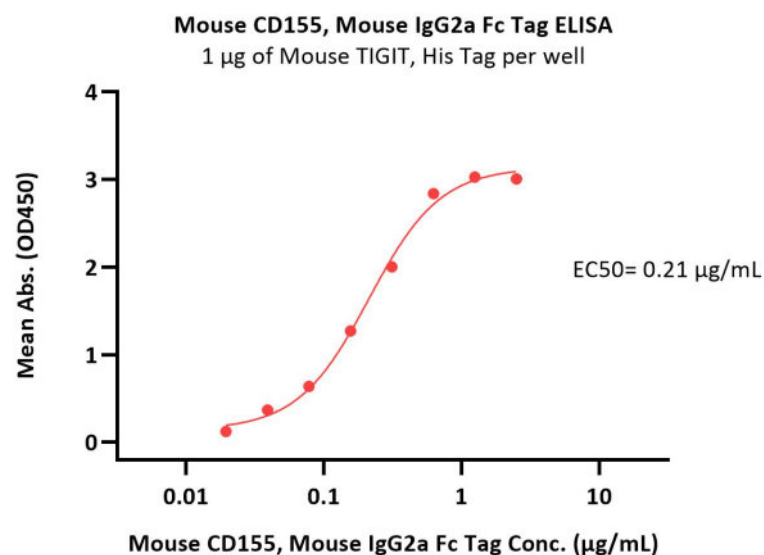


The purity of Mouse CD155, Mouse IgG2a Fc Tag (Cat. No. CD5-M5254) is more than 90% and the molecular weight of this protein is around 130-160 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Mouse TIGIT, His Tag (Cat. No. TIT-M52E6) at 10 µg/mL (100 µL/well) can bind Mouse CD155, Mouse IgG2a Fc Tag (Cat. No. CD5-M5254) with a linear range of 0.039-1.25 µg/mL (QC 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 the ectodomain D1 and D2 of CD155 were solved by x-ray crystallography.

## Clinical and Translational Updates

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