Mouse CD155 / PVR Protein, His Tag (MALS verified)

Catalog # CD5-M52H6

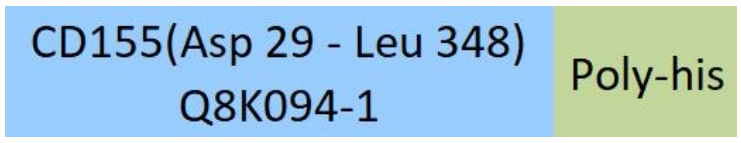
Synonym

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

Source

Mouse CD155 Protein, His Tag(CD5-M52H6) is expressed from human 293 cells (HEK293). It contains AA Asp 29 - Leu 348 (Accession # Q8K094-1). Predicted N-terminus: Asp 29

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.7 kDa. The protein migrates as 55-67 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 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

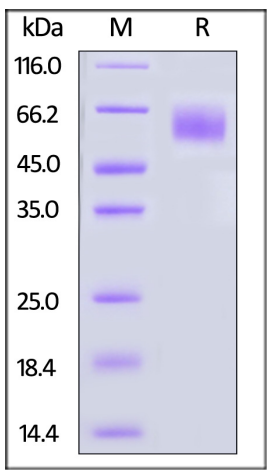
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

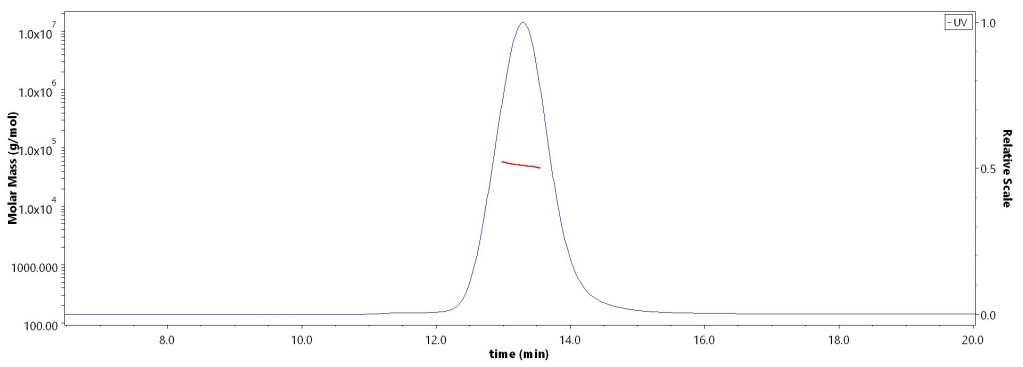
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



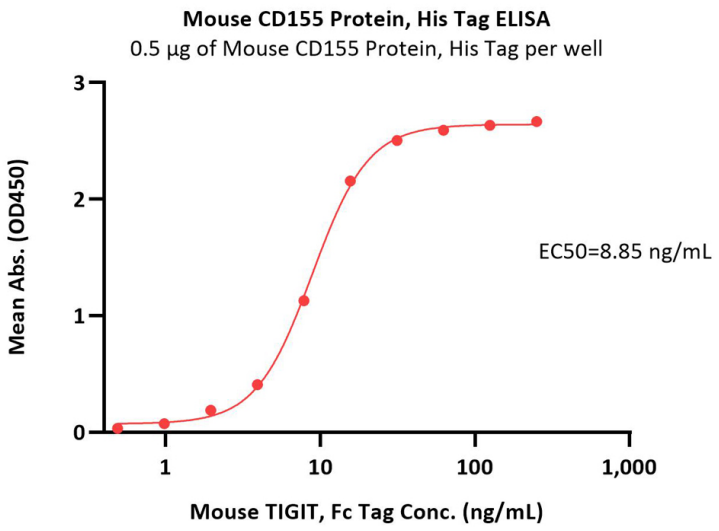
Mouse CD155 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

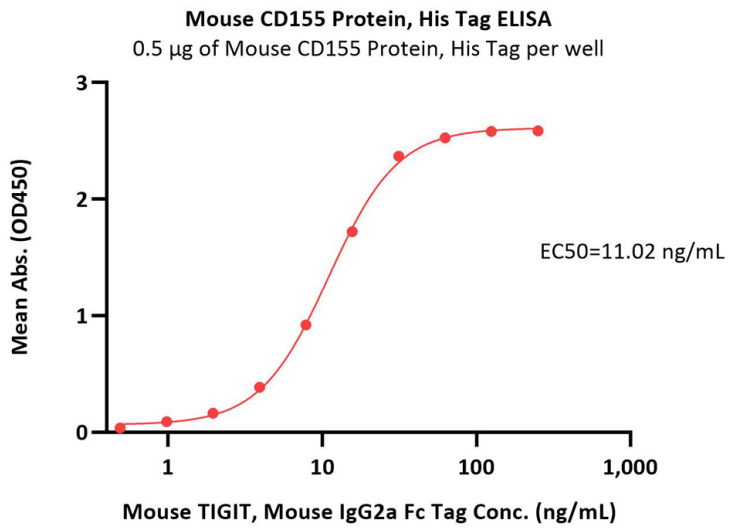


The purity of Mouse CD155 Protein, His Tag (Cat. No. CD5-M52H6) is more than 90% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Mouse CD155 Protein, His Tag (Cat. No. CD5-M52H6) at 5 μg/mL (100 μL/well) can bind Mouse TIGIT, Fc Tag (Cat. No. TIT-M5257) with a linear range of 0.5-16 ng/mL (QC tested).



Immobilized Mouse CD155 Protein, His Tag (Cat. No. CD5-M52H6) at 5 μg/mL (100 μL/well) can bind Mouse TIGIT, Mouse IgG2a Fc Tag (Cat. No. TIT-M5253) with a linear range of 0.5-31 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.