Biotinylated Human PVRIG Protein, Mouse IgG2a Fc,Avitag™ (MALS verified)

Catalog # PVG-H82F5

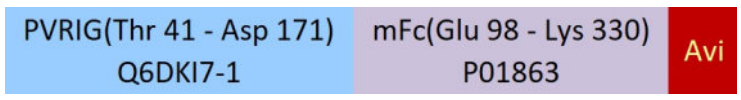
Synonym

C7orf15,C7orf15MGC138295,CD112R,MGC104322,MGC138297,MGC2463,PVRIG,CD112 receptor

Source

Biotinylated Human PVRIG, Mouse IgG2a Fc,Avitag(PVG-H82F5) is expressed from human 293 cells (HEK293). It contains AA Thr 41 - Asp 171 (Accession # Q6DKI7-1).

Molecular Characterization



This protein carries a mouse IgG2a Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 42.4 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 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 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

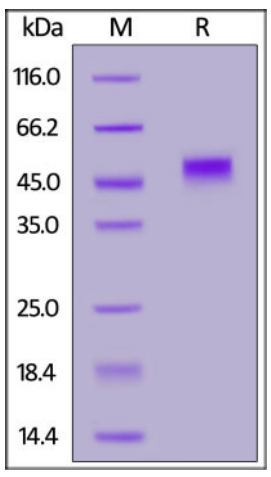
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

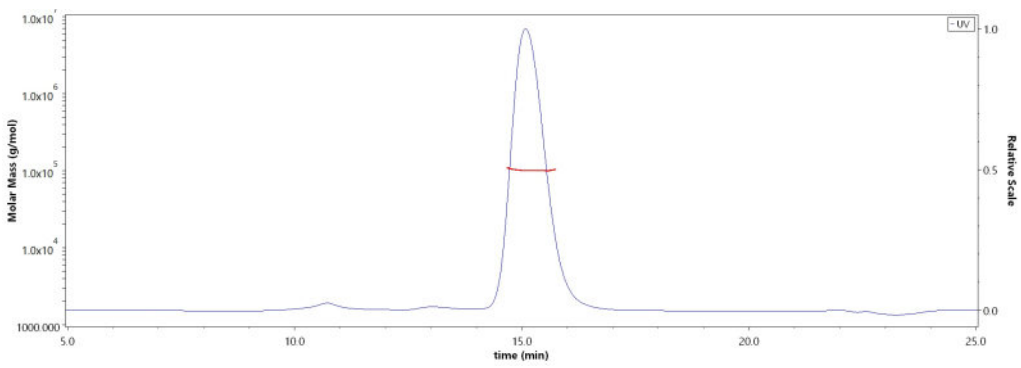
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



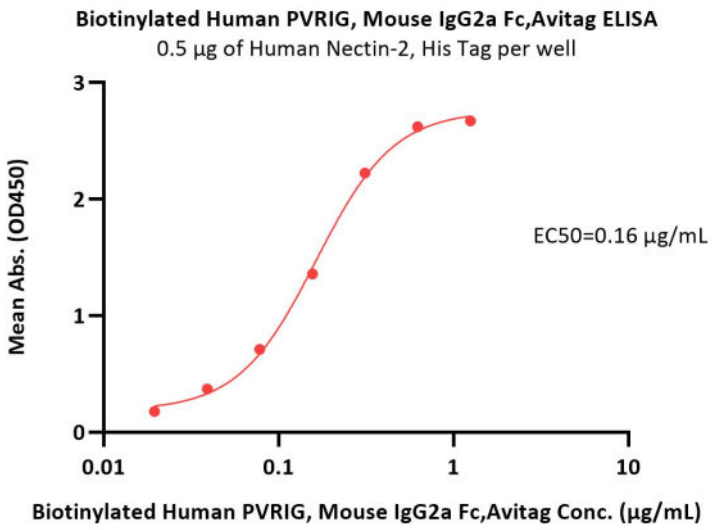
Biotinylated Human PVRIG, Mouse IgG2a Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

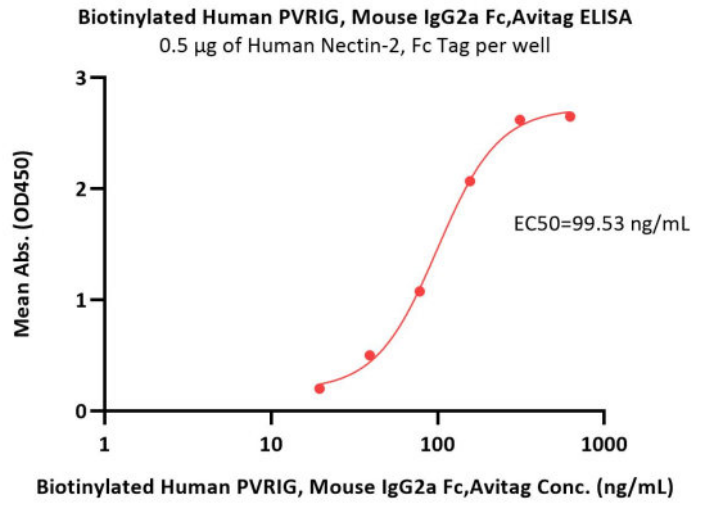


The purity of Biotinylated Human PVRIG, Mouse IgG2a Fc,Avitag (Cat. No. PVG-H82F5) is more than 90% and the molecular weight of this protein is around 95-105 kDa verified by SEC-MALS.
Report

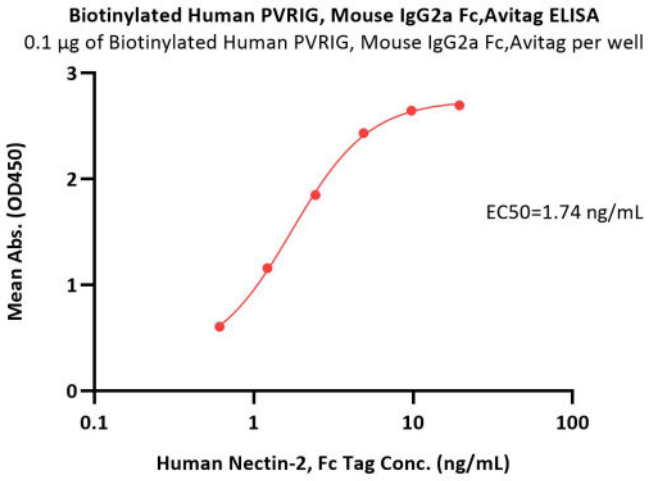
Bioactivity-ELISA



Immobilized Human Nectin-2, His Tag (Cat. No. PV2-H52E2) at 5 μg/mL (100 μL/well) can bind Biotinylated Human PVRIG, Mouse IgG2a Fc,Avitag (Cat. No. PVG-H82F5) with a linear range of 0.02-0.313 μg/mL (QC tested).



Immobilized Human Nectin-2, Fc Tag (Cat. No. PV2-H5253) at 5 μg/mL (100 μL/well) can bind Biotinylated Human PVRIG, Mouse IgG2a Fc,Avitag (Cat. No. PVG-H82F5) with a linear range of 19.5-156 ng/mL (Routinely tested).



Immobilized Biotinylated Human PVRIG, Mouse IgG2a Fc,Avitag (Cat. No. PVG-H82F5) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human Nectin-2, Fc Tag (Cat. No. PV2-H5253) with a linear range of 0.6-2 ng/mL (Routinely tested).

Background

Human PVRIG (poliovirus receptor related immunoglobulin domain-containing protein), also known as CD112 receptor (CD112R), is an approximately 34 kDa single transmembrane protein in the poliovirus receptor-like protein (PVR) family. The CD112R gene encodes a putative single transmembrane protein, which is composed of a single extracellular IgV domain, one transmembrane domain, and a long intracellular domain. Notably, the intracellular domain of phatases. The extracellular domain sequence of human and mouse CD112R have 65.3% similarity. CD112R may act as a coinhibitory receptor that suppresses T-cell receptor-mediated signals.

Clinical and Translational Updates