

**Synonym**

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

**Source**

Human PVRIG, Mouse IgG2a Fc Tag, low endotoxin (PVG-H5253) is expressed from human 293 cells (HEK293). It contains AA Thr 41 - Asp 171 (Accession # Q6DKI7-1).

Predicted N-terminus: Thr 41

**Molecular Characterization**

PVRIG(Thr 41 - Asp 171) Q6DKI7-1	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 40.6 kDa. The protein migrates as 50-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.1 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.*

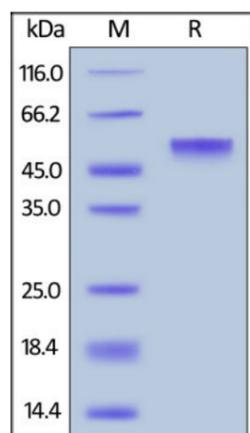
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

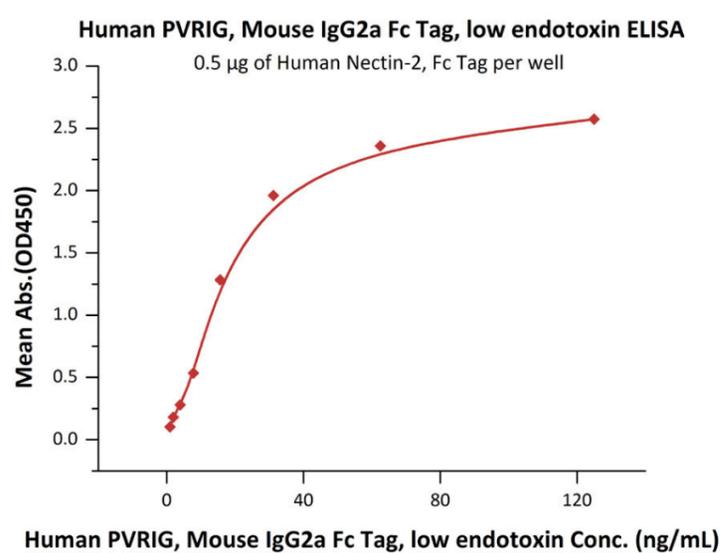
This product is stable after storage at:

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

**SDS-PAGE**

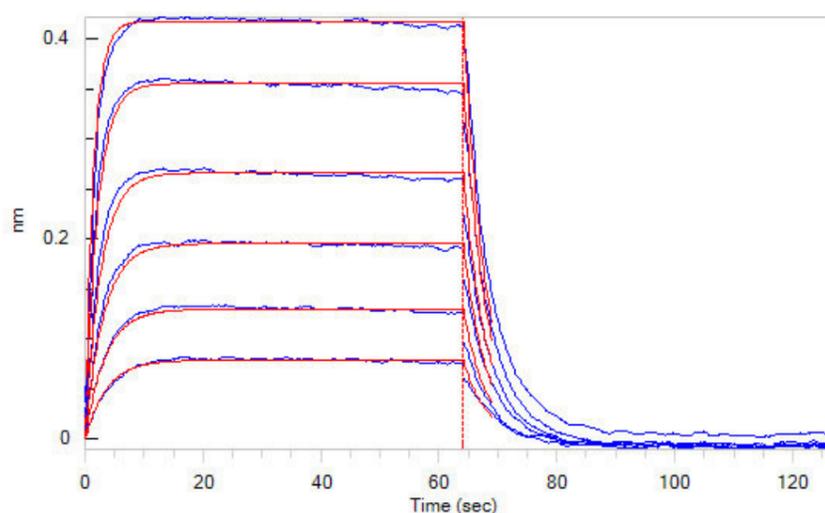
Human PVRIG, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA**



Immobilized Human Nectin-2, Fc Tag (Cat. No. [PV2-H5253](#)) at 5 µg/mL (100 µL/well) can bind Human PVRIG, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [PVG-H5253](#)) with a linear range of 1-31 ng/mL (QC tested).

### Bioactivity-BLI



Loaded Human PVRIG, Mouse IgG2a Fc Tag, low endotoxin (Cat. No. [PVG-H5253](#)) on Protein A Biosensor, can bind Human Nectin-2, His Tag (Cat. No. [PV2-H52E2](#)) with an affinity constant of 0.57 µM as determined in BLI assay (ForteBio Octet Red96e) (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.

### References

- (1) [Xu F., et.al. 2017, Cancer Immunol Immunother., 66\(10\), 1367-1375.](#)
- (2) [Zhu, Y., et.al. 2016, J. Exp. Med., 213,167-76.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.