

## PVRIG Protein, Human, Recombinant (mFc)

### General Information

Synonyms:	C7orf15;RMO1;ALS2CR18;LPD;ALS2CR9;RaLGDS/AF-6;PREL-2;PREL2
Protein Construction:	Thr41-Asp171
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6DKI7-1
Molecular Weight:	39.6 kDa (Predicted); 50-65 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human PVRIG, mFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-PVRIG Antibody, hFc Tag with the EC50 of 8.0 ng/ml determined by ELISA. Human PVRIG, mFc Tag captured on CM5 Chip via Anti-Mouse Antibody can bind Human Nectin-2, His Tag with an affinity constant of 0.349 µM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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

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protein (PVR) family. PVRIG is a cell surface receptor for NECTIN2. May act as a coinhibitory receptor that suppresses T-cell receptor-mediated signals. Following interaction with NECTIN2, inhibits T-cell proliferation. Competes with CD226 for NECTIN2-binding.

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