

PVRIG Protein, Mouse, Recombinant (hFc & Avi), Biotinylated

General Information

Synonyms:	MGC2463;MGC104322;LPD;C7orf15;ALS2CR18;PREL2;ALS2CR9;RMO1;PREL-2;RaIGDS/AF-6;CD112R;PVRIG;MGC138297
Protein Construction:	Ser35-Asp165
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	A0A1B0GS01
Molecular Weight:	42.7 kDa (predicted). Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	1. Immobilized Mouse Nectin-2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Mouse PVRIG, hFc Tag with the EC50 of 1.76µg/ml determined by ELISA. 2. Biotinylated Mouse PVRIG, hFc-Avi Tag captured on CM5 Chip via Protein A can bind Mouse Nectin-2, His Tag with an affinity constant of 2.22 µM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent 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

Murine PVRIG interacted weakly with poliovirus receptor (PVR) but bound poliovirus receptor-like 2 (PVRL2) strongly, making the latter its principal ligand. PVRIG is an inducible checkpoint receptor and that targeting PVRIG-

PVRL2 interactions results in increased CD8+ T-cell function and reduced tumor growth.

Reference

Murter B, et al. Mouse PVRL2 Has CD8+ T Cell-Specific Coinhibitory Functions and Dampens Antitumor Immunity. *Cancer Immunol Res.* 2019 Feb;7(2):244-256. doi: 10.1158/2326-6066.CIR-18-0460. Epub 2019 Jan 18. PMID: 30659055; PMCID: PMC7038785.

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