

# Biotinylated Mouse PVRIG Protein

Cat. No. PVR-MM501B

## Description

<b>Source</b>	Recombinant Biotinylated Mouse PVRIG Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus. It contains Ser35-Asp165.
<b>Accession</b>	A0A1B0GS01
<b>Molecular Weight</b>	The protein has a predicted MW of 42.7 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

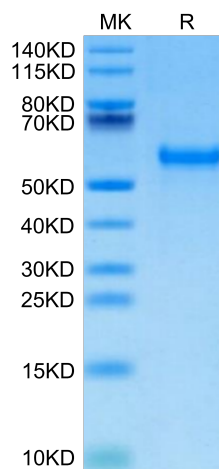
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

## Assay Data

### Tris-Bis PAGE



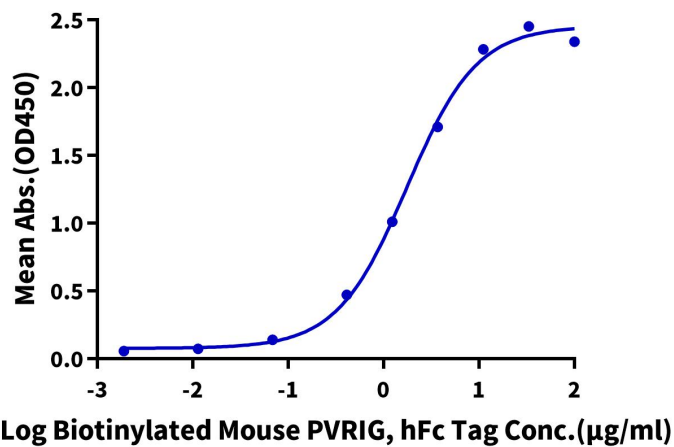
Biotinylated Mouse PVRIG on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

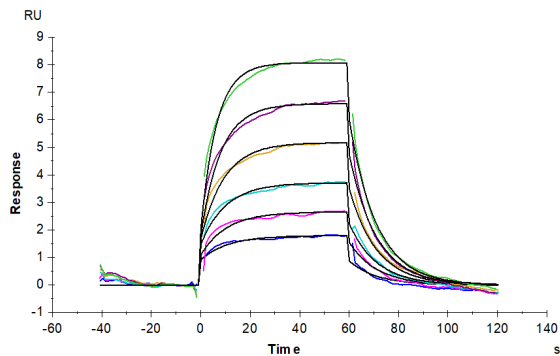
**Biotinylated Mouse PVRIG, hFc Tag ELISA**

0.1µg Mouse Nectin-2, His Tag Per Well



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.

SPR Data



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 (Biacore T200).