

## PVRIG Protein, Mouse (Biotinylated, HEK293, Fc-Avi)

Cat. No.:	HY-P700818
Synonyms:	C7orf15; CD112R; MGC104322; MGC138297; MGC2463; PVRIG; ALS2CR18; ALS2CR9; LPD; PREL-2; PREL2; RalGDS/AF-6; RMO1
Species:	Mouse
Source:	HEK293
Accession:	A0A1B0GS01 (S35-D165)
Gene ID:	102640920
Molecular Weight:	55-65 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>Poliovirus receptor related immunoglobulin domain containing (PVRIG), a member of the nectin and nectin-like family, is an immune checkpoint molecule with potential for development. In humans, PVRIG is expressed on T cells (predominantly CD8<sup>+</sup> T cells) and natural killer (NK) cells, but not on B cells, monocytes or neutrophils. PVRIG binds to a single ligand, poliovirus receptor-related 2 (PVRL2), and exerts an inhibitory effect on cytotoxic lymphocyte activity, likely via an ITIM-like motif in its intracellular domain. PVRL2 are inhibitory receptors on effector T cells, suppressing cytokine production and cytotoxic activity. PVRIG deficiency or PVRIG blockade can reduce the tumor size and prolong the survival of tumor-bearing mice through inhibiting NK cell and CD8<sup>+</sup> T cell exhaustion. PVRIG blockade enhances natural killer cell killing of PVRL2hiPVRL2 acute myeloid leukemia cells<sup>[1][2][3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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