

Active Recombinant Human PVRIG protein, Fc-tagged

Cat. No. PVRIG-188H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PVRIG(Thr41 & Glu43Leu172) fused with Fc region of Human IgG1 at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	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. It is composed of a single extracellular IgV domain, one transmembrane domain, and a long intracellular domain. The intracellular domain contains two tyrosine residues, one within an ITIM-like motif that is a potential docking site for phosphatases. The extracellular domain sequence of human and mouse PVRIG have approximately 65% similarity. The human PVRIG gene is preferentially expressed in lymphocytes, such as T cells and NK cells, but not in monocyte derived dendritic cells. PVRIG functions as a cell surface receptor for Nectin-2/CD112, a cell surface protein that is widely expressed on antigen-presenting cells and tumor cells. Disrupting the PVRIG/Nectin-2 interaction enhances human T cell response, suggesting PVRIG is a novel checkpoint for human T cells.
Predicted N Terminal	Thr41 & Glu43
Form	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for detail

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Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human PV RIG Fc Chimera is immobilized at 1 µg/mL, 100 µL/well, the concentration of Recombinant Human Nectin2/CD112 that produces 50% of the optimal binding response is 0.42.4 µg/mL.
Molecular Mass	Predicted Molecular Mass: 40 kDa SDS-PAGE: 51-57 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Store the unopened product at -20 to -70 centigrade. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Do not use past expiration date.
Reconstitution	Reconstitute at 500 µg/mL in PBS.

GENE INFORMATION

Gene Name	PVRIG poliovirus receptor related immunoglobulin domain containing [Homo sapiens]
Official Symbol	PVRIG
Synonyms	PVRIG; poliovirus receptor related immunoglobulin domain containing; transmembrane protein PVRIG; C7orf15; MGC2463; poliovirus receptor-related immunoglobulin domain-containing protein; MGC104322; MGC138295; MGC138297;

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Gene ID	79037
mRNA Refseq	NM_024070
Protein Refseq	NP_076975
UniProt ID	Q6DKI7

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