## Recombinant Human PVRIG (C-mFc)

## Catalog Number: PKSH034031

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description		
Species	Human	
Source	HEK293 Cells-derived Human PVRIG protein Thr41-Asp171, with an C-terminal Fc	
Calculated MW	40.6 kDa	
Observed MW	45-50 kDa	
Accession	Q6DKI7	
Bio-activity	Loaded Biotinylated Human Nectin-2-His on His Biosensor, can bind Human PVRIG	
	with an affinity constant of 168.5n M as determined in BLI assay.	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.	
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80	
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of	
	reconstituted samples are stable at $<$ -20°C for 3 months.	
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.	
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants	
	before lyophilization.	
	Please refer to the specific buffer information in the printed manual.	
Reconstitution	Please refer to the printed manual for detailed information.	

## Data

kDa	МК	R
120 90		
60		-
40		
30		
20	_	
14	-	

> 95 % as determined by reducing SDS-PAGE.

## 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 protein (PVR) family. The extracellular domain sequence of human and mouse PVRIG have approximately 65% similarity. 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. PVRIG may act as a coinhibitory receptor that suppresses T-cell receptor-mediated signals.

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