

# Human CD112 / Nectin-2 / PVRL2 Protein

Catalog Number: 10005-HCCH



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CD112; HVEB; Nectin-2; PRR2; PVRL2

### Protein Construction:

The mature form of recombinant human CD112 (NP\_002847.1) extracellular domain (Met 1-Leu 360) with quinary-aa peptide (DDDDK) at the C-terminus was expressed and purified.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Bio Activity:

**Measured by its binding ability in a functional ELISA. Immobilized human CD112 (Cat: 10005-HCCH) at 10 µg/ml (100 µl/well) can bind human DNAM1-Fch (Cat: 10565-H03H) with a linear range of 1.25-10 µg/ml.**

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Gln 32

### Molecular Mass:

The recombinant human CD112 comprises 335 amino acids and has a calculated molecular mass of 36.2 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 48 kDa protein in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

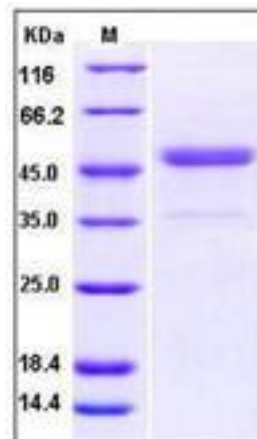
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Cluster of Differentiation 112 (CD112), also known as poliovirus receptor related protein 2 (PVRL2 or PRR2), is a single-pass type I transmembrane glycoprotein belonging to the Immunoglobulin superfamily. CD112 protein also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and thus is involved in cell to cell spreading of these viruses. CD112 protein has been identified as the ligand for DNAM-1 (CD226), and the interaction of CD226/CD112 protein can induce NK cell- and CD8+ T cell-mediated cytotoxicity and cytokine secretion. CD112 has been regarded as a critical component in allergic reactions, and accordingly may function as a novel target for anti-allergic therapy.

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