

# Human CD112 / Nectin-2 / PVRL2 Protein (Fc Tag)

Catalog Number: 10005-H02H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CD112; HVEB; Nectin-2; PRR2; PVRL2

### Protein Construction:

A DNA sequence encoding the extracellular domain (Met 1-Leu 360) of human CD112 (NP\_002847.1) was fused with the Fc region of human IgG1 at the C-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

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

### Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized human CD226 at 2 µg/ml (100 µl/well) can bind human CD112 with a linear range of 6.4-800 ng/ml.

2. Immobilized PVRL2 Protein, Cynomolgus, Rhesus, Recombinant (His Tag)(Cat:90971-C08H) at 2 µg/ml (100 µl/well) can bind Nectin-2 Protein, Human, Recombinant (hFc Tag)(Cat:10005-H02H), the EC50 of Nectin-2 Protein, Human, Recombinant (hFc Tag) is 0.2-1.2 ng/mL.

3. Loaded Human PVRL2 Protein, mFc Tag(Cat.No.28312-H38H2) on AMC Biosensor, can bind Human Nectin-2 protein, hFc Tag (Cat.No.10005-H02H) with an affinity constant of 8.784nM as determined in BLI assay (Sartorius Octet Red384) (Routinely tested).

### Endotoxin:

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

**Predicted N terminal:** Gln 32

### Molecular Mass:

The recombinant mature human CD112/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 567 amino acids and has a calculated molecular mass of 62.3 kDa. As a result of glycosylation, the rh CD112/Fc monomer migrates as an approximately 70-80 kDa protein in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

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

### Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

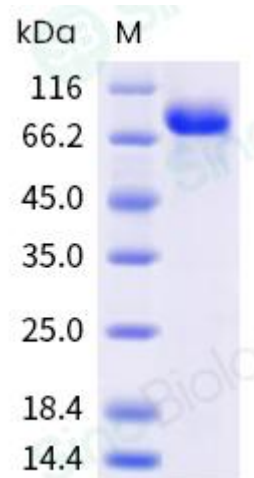
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**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.

## References