



# Recombinant Protein Technical Manual

## Recombinant Human Nectin-3/PVRL3 Protein (His Tag)

RPES0119

### Product Data:

**Product SKU:** RPES0119

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9NQS3

### Protein Information:

**Molecular Mass:** 35.0 kDa

**AP Molecular Mass:** 54 kDa

**Tag:** C-6His

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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 20mM PB, 150mM NaCl, 5% Trehalose, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Poliovirus Receptor-Related Protein 3; CDw113; Nectin-3; CD113; PVRL3; PRR3;PVRR3

## Immunogen Information:

**Sequence:** Gly58-Cys366

## Background:

Nectin-3 is a type I transmembrane glycoprotein that belongs to the nectin family. Its precursor is 549 amino acids in length and contains an extended signal sequence of 57 amino acids, an extracellular domain (ECD) of 347 amino acids, a transmembrane segment of 21 amino acids, and a cytoplasmic region of 124 amino acids. It is predominantly expressed in testis and placenta as well as in various cell lines, including epithelial cell lines. Nectin-3 plays a role in cell-cell adhesion through heterophilic trans-interactions with nectin-like proteins or nectins, such as trans-interaction with PVRL2/Nectin-2 at Sertoli-spermatid junctions. Nectin-3 is also involved in the formation of cell-cell junctions, including adherens junctions and synapses.