Data Sheet (Cat.No.TMPJ-00310)

TargetMol

Nectin-4 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	Nectin-4;PVRL4;LNIR;PRR4;Ig superfamily receptor LNIR;Poliovirus receptor-related protein 4
Protein Construction:	Gly32-Val351
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96NY8
Molecular Weight:	40-50 KDa (reducing condition)
AA Sequence:	Gly32-Val351

QC Testing

Biological Activity:	1. Loaded Biotinylated Human Nectin-4-His-Avi on SA Biosensor, can bind Anti-Human Nectin-4 mAb-mFc with an affinity constant of 1 <10⁻³ nM as determined in BLI assay. (Regularly tested) 2. Immobilized Human Nectin-4-His-Avi at 2μg/ml (100 μl/well) can bind Anti-Human Nectin-4 mAb-mFc. The ED50 of Anti-Human Nectin-4 mAb-mFc is 12.28 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Nectin-4 (PVRL4) is a type I transmembrane glycoprotein which belongs to the nectin family of Ig superfamily proteins. It contains two Ig-like C2-type domains and one Ig-like V-type domain. PVRL4 seems to be involved in

cell adhesion through trans-homophilic and -heterophilic interactions, the latter including specifically interactions with nectin-1. It does not act as receptor for alpha-herpesvirus entry into cells. It is predominantly expressed in placenta, the embryo and breast carcinoma. But it is not detected in normal breast epithelium. The soluble form is produced by proteolytic cleavage at the cell surface (shedding), probably by ADAM17. Mutations in this gene are the cause of ectodermal dysplasia-syndactyly syndrome type 1, an autosomal recessive disorder.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481