

Recombinant Mouse Nectin-4/PVRL4 Protein

Catalog No.: RP01451

Sequence Information

Species **Gene ID**
Mouse 71740

Swiss Prot **Tags**
Q8R007 C-His

Synonyms
Nectin4, Prr4, Pvrl4, Nectin4

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
35.15 kDa Approximately
40 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1–0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

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.

Basic Information

Description

Recombinant Mouse Nectin-4/PVRL4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly31–Ser347) of mouse Nectin-4 (Accession #NP_082169.2) fused with a 6×His tag at the C-terminus.

Activity

Measured by the ability of the immobilized protein to support the adhesion of NIH_x001e_3T3 mouse embryonic fibroblast cells. When 5 x 10⁴ cells/well are added to recombinant mouse Nectin-4 coated plates (10 μg/mL with 100 μL /well), approximately 30%–40% will adhere after 1 hour incubation at 37 °C.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

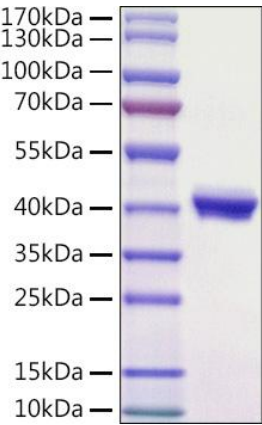
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Validation Data



Recombinant Mouse Nectin-4/PVRL4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.