

Recombinant Mouse Nectin-4 Protein

Catalog No.: RP01451 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	71740	Q8R007

Tags

C-His

Synonyms

Nectin4;Prr4;Pvrl4;Nectin4

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/ μ g

Formulation

Lyophilized from a 0.22 μ m 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.

Contact

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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 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 6xHis tag at the C-terminus.

Bio-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 μ g/mL with 100 μ L/well), approximately 30%-40% will adhere after 1 hour incubation at 37 $^{\circ}$ C.

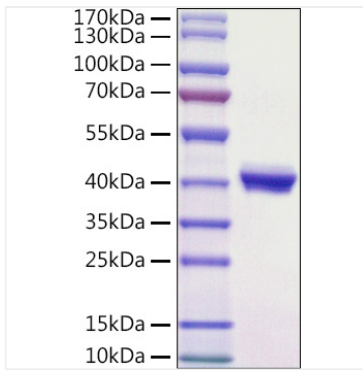
Storage

Store at -20 $^{\circ}$ C. Store the lyophilized protein at -20 $^{\circ}$ C to -80 $^{\circ}$ C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Nectin-4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-42kDa.