

Nectin-1 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	HIgRPVRR;OFC7;CLPED1;SK-12;MGC142031;HIgR;PVRL1;HVEC;CD111;PVRR1;Nectin1;PRR; PRR1;PRR1MGC16207;PVRR;ED4
Protein Construction:	Gln31-Thr334
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q15223-1
Molecular Weight:	36.9 kDa (predicted). Due to glycosylation, the protein migrates to 52-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human Nectin-4, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human Nectin-1, His-Avi Tag with an affinity constant of 22.83 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

Nectins are a small family of Ca²⁺-independent immunoglobulin (Ig)-like cell adhesion molecules (CAMs) that organize intercellular junctions. They are highly homologous to the human receptor for poliovirus, and as such have been alternately named poliovirus receptor-related proteins. Nectin-1 promotes cell-cell contacts by forming homophilic or heterophilic trans-dimers. Heterophilic interactions have been detected between Nectin-1 and

Nectin-3 and between Nectin-1 and Nectin-4. Has some neurite outgrowth-promoting activity.

Reference

Yu Z, et al. Nectin-1 Expression by Squamous Cell Carcinoma is a Predictor of Herpes Oncolytic Sensitivity[J]. Molecular Therapy, 2007, 15(1):103-113.

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