

Nectin-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77469
Synonyms:	Poliovirus Receptor-Related Protein 1; Herpes Virus Entry Mediator C; Herpesvirus Entry Mediator C; HveC; Herpesvirus Ig-Like Receptor; HIgR; Nectin-1; CD111; PVRL1; HVEC; PRR1
Species:	Mouse
Source:	HEK293
Accession:	Q9JKF6 (Q31-A354)
Gene ID:	58235
Molecular Weight:	Approximately 50-75 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> Q V V Q V N D S M Y G F I G T D V V L H C S F A N P L P S V K I T Q V T W Q K A S N G S K Q N M A I Y N P T M G V S V L P P Y E K R V E F L R P S F I D G T I R L S G L E L E D E G M Y I C E F A T F P T G N R E S Q L N L T V M A K P T N W I E G T R A V L R A R K G Q D D K V L V A T C T S A N G K P P S A V S W E T R L K G E A E Y Q E I R N P N G T V T V I S R Y R L V P S R E A H R Q S L A C I V N Y H L D R F R E S L T L N V Q Y E P E V T I E G F D G N W Y L Q R T D V K L T C K A D A N P P A T E Y H W T T L N G S L P K G V E A Q N R T L F F R G P I T Y S L A G T Y I C E A T N P I G T R S G Q V E V N I T E F P Y T P T P E H G R R A G Q M P T A </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human Nectin-3 is present at 1 µg/mL, can bind Recombinant Mouse Nectin-1. The ED ₅₀ for this effect is 151 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Nectin-1, a pivotal player in cell adhesion and synaptogenesis, exhibits neurite outgrowth-promoting activity, underscoring its importance in neurodevelopmental processes. Functioning as a receptor for alphaherpesviruses, including HSV-1, HSV-2, and pseudorabies virus, Nectin-1 facilitates viral entry into cells. The protein engages in both cis- and trans-homodimerization and can also form trans-heterodimers with NECTIN3, initiating the formation of puncta adherentia junctions crucial for axon-dendrite interactions. Additionally, its interaction with FGFR1, FGFR2, and FGFR3, as well as AFDN, establishes connections with the actin cytoskeleton, contributing to its diverse cellular roles. Notably, Nectin-1 interacts with HSV glycoprotein D (gD), highlighting its involvement in viral infection processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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