

## Nectin-2/CD112 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7780
<b>Synonyms:</b>	rHuCD112, His; Poliovirus Receptor-Related Protein 2; Herpes Virus Entry Mediator B; Herpesvirus Entry Mediator B; CD112; PVRL2; HVEB; PRR2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q92692-2 (Q32-L360)
<b>Gene ID:</b>	5819
<b>Molecular Weight:</b>	Approximately 50 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           QDVRVQVLPE    VRGQLGGTVE    LPCHLLPPVP    GLYISLVTWQ            RPDAPANHQN    VAAFHPKMGF    SFPSPKPGSE    RLSFVSAKQS            TGQDTEAELQ    DATLALHGLT    VEDEGNYTCE    FATFPKGSVR            GMTWLRVIAK    PKNQAEAQKV    TFSQDPTTVA    LCISKEGRPP            ARISWLSSTD    WEAKETQVSG    TLAGTVTVTS    RFTLVPSGRA            DGVTVTCKVE    HESFEERALI    PVTLSVRYPP    EVSISGYDDN            WYLGRTDRTL    SCDVRSNPEP    TGYDWSSTSG    TFPTSAVAQG            SQLVIHAVDS    LFNTTFVCTV    TNAVGMGRAE    QVIFVRETPR            ASPRDVGPLH    HHHHH         </p>
<b>Biological Activity</b>	Immobilized Human DNAM-1-Fc at 2µg/ml (100 µl/well) can bind recombinant Human CD112, His (HEK293-expressed) (rHuCD112, His). The ED <sub>50</sub> of recombinant Human CD112, His (HEK293-expressed) (rHuCD112, His) is 0.3-1.5 µg/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.2.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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## Background

Nectin-2 (CD112) is a 60 (Nectin-2  $\alpha$ ) or 65 kDa (Nectin-2  $\delta$ ) type I TM glycoprotein that expressed in a variety of cells. Nectin is a  $\text{Ca}^{2+}$ -independent immunoglobulin-like intercellular adhesion molecule. Nectin comprises a family of at least four members nectin-1, nectin-2, nectin-3 and nectin-4. All the members have two or three splice variants (except nectin-4), and have an extracellular region containing three Ig-like domains, a single transmembrane region and a cytoplasmic region (except nectin-1 $\gamma$ ). Nectin-1, nectin-2 and nectin-3 are ubiquitously expressed in a variety of cells. Nectin-2 and nectin-3 are also expressed in cells that lack cadherins. Human nectin-4 is expressed mainly in the placenta<sup>[1][2]</sup>.

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## REFERENCES

- [1]. Takai Y, et, al. Nectin and afadin: novel organizers of intercellular junctions. *J Cell Sci.* 2003 Jan 1;116(Pt 1):17-27.
- [2]. Bottino C, et, al. Identification of PVR (CD155) and Nectin-2 (CD112) as cell surface ligands for the human DNAM-1 (CD226) activating molecule. *J Exp Med.* 2003 Aug 18;198(4):557-67.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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