

## CLDN3 Protein, Human (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702248
<b>Synonyms:</b>	Claudin-3; Clostridium perfringens enterotoxin receptor 2; CPE-R 2; CPE-receptor 2; Rat ventral prostate.1 protein homolog; hRVP1
<b>Species:</b>	Human
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	O15551 (M1-V220)
<b>Gene ID:</b>	1365
<b>Molecular Weight:</b>	26.1 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MSMGLEITGT   ALAVLGWLG T   IVCCALPMWR   VSAFIGSNI I TSQNIWEG LW   MNCVVQSTG Q   MQCKVYDSL L   ALPQDLQAAR ALIVVAI LLA   AFGLLVALV G   AQCTNCVQDD   TAKAKITIVA GVLFLLAALL   TLPVVSWSAN   TIIRDFYNPV   VPEAQKREMG AGLYVGWAAA   ALQLLG GALL   CCSCPPREKK   YTATKVVYSA PRSTGPGASL   GTGYDRKDYV           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<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

<b>Background</b>	<p>Claudin-3/CLDN3 Protein assumes a crucial role in the specific obliteration of the intercellular space within tight junctions, employing calcium-independent cell-adhesion activity. This protein demonstrates its versatility by forming both homo- and heteropolymers with other CLDN members, including interactions with CLDN1 and CLDN2 homopolymers. Additionally, Claudin-3/CLDN3 directly engages with tight junction-associated proteins TJP1/ZO-1, TJP2/ZO-2, and TJP3/ZO-3, emphasizing its integral role in the assembly and maintenance of tight junction complexes. The ability to form polymers and</p>
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interact with key junctional components highlights Claudin-3/CLDN3's significance in regulating cell adhesion and the structural integrity of intercellular spaces.

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

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