

Claudin-3/CLDN3 Protein, Human (His-B2M)

Cat. No.:	HY-P72146
Synonyms:	C7orf1; Claudin-3; Claudin3; CLD3_HUMAN; CLDN 3; Cldn3; Clostridium perfringens enterotoxin receptor 2; CPE R2; CPE receptor 2; CPE-R 2; CPE-receptor 2; CPETR 2; CPETR2; HRVP 1; HRVP1; Rat ventral prostate 1 like protein; Rat ventral prostate.1 protein homolog; RVP1; Ventral prostate.1 like protein; Ventral prostate.1 protein homolog
Species:	Human
Source:	E. coli
Accession:	O15551 (R30-R80)
Gene ID:	1365
Molecular Weight:	Approximately 21 kDa

PROPERTIES

AA Sequence	R V S A F I G S N I I T S Q N I W E G L W M N C V V Q S T G Q M Q C K V Y D S L L A L P Q D L Q A A R
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
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.
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	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 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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