

Claudin-4 Protein-VLP, Human, Recombinant (Flag)

General Information

Synonyms:	CPETR;WBSCR8;hCPE-R;CPE-R;CPEP;CPETR1
Protein Construction:	A DNA sequence encoding the Human CLDN4-VLP (Full Length) (O14493) (Met1-Val209) was fused with a flag tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O14493
Molecular Weight:	23.39 kDa (predicted)

QC Testing

Biological Activity:	Immobilized Claudin-4 Protein-VLP, Human, Recombinant (Flag) (Cat#TMPY-07140) at 5 µg/mL (100 µL/well) can bind Anti-Human Claudin-4 Monoclonal antibody, Human IgG1, the EC50 is 10-30 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:	Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

Protein Background

CLDN4 (encoding claudin-4), a cell tight junction (TJ) protein, is highly expressed in human epithelial ovarian carcinomas (EOC) but undetectable in normal ovaries. Claudins form a large family of tight junction proteins that have essential roles in the control of paracellular ion flux and the maintenance of cell polarity. CLDN4 has been identified as a specific receptor for C terminus of Clostridium perfringens enterotoxin (C-CPE), a nontoxic molecule that may disrupt TJ barrier function and enhance cellular absorption. Claudin-4, encoding a protein for tight junction formation and function, is highly overexpressed in pancreatic ductal adenocarcinoma and is also associated with invasive adenocarcinomas arising in intraductal papillary mucinous neoplasms of the pancreas. Claudin-4 expression is associated with neoplastic progression of intraductal papillary mucinous neoplasms and, especially, with a distinct pathway to intestinal differentiation. CLDN4 is a tight junction protein involved in blood-brain barrier integrity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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