

HDFP820

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**Product Information**

<b>Product SKU:</b>	HDFP820	<b>Expression Host:</b>	HEK293	<b>Size:</b>	10µg
<b>Target:</b>	CLDN4	<b>Tag:</b>	C-Flag&Strep Tag		

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**Additional Information**

<b>Conjugate:</b>	Unconjugated	<b>Uniprot ID:</b>	O14493
<b>Molecular Weight:</b>	The human full length CLDN4-Strep protein has a MW of 22.1 kDa		

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**Protein Information**

**Background:** The protein belongs to the claudin family. Claudins are integral membrane proteins that are components of the epithelial cell tight junctions, which regulate movement of solutes and ions through the paracellular space. This protein is a high-affinity receptor for Clostridium perfringens enterotoxin (CPE) and may play a role in internal organ development and function during pre- and postnatal life. This gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems.

**Synonyms:** CPE-R; CPER; CPETR; CPETR1; hCPE-R; WBSCR8

**Protein Description:** Human CLDN4-Strep full length protein-synthetic nanodisc

**Formulation:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

**Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction.

**Protein Families:** Druggable Genome, Transmembrane.

**Usage:** Research use only

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.