HUMAN CLDN4(145-157) PROTEIN, HFC TAG

Cat.#: 11844

Product Name: Human CLDN4(145-157) Protein

Size : 10 µg, 50 µg and 100 µg

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

Target: CLDN4

UNIPROT ID: O14493

Description: Recombinant Human CLDN4(145-157) Protein with C-terminal human Fc tag

Background: The protein encoded by this intronless gene 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. [provided by RefSeq, Sep 2013]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 27.6 kDa after removal of the signal peptide. The apparent molecular mass of CLDN4(145-157)-hFc is approximately 25-35 kDa due to glycosylation.

Molecular Characterization: CLDN4(Gln145-Lys157) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: 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.

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.

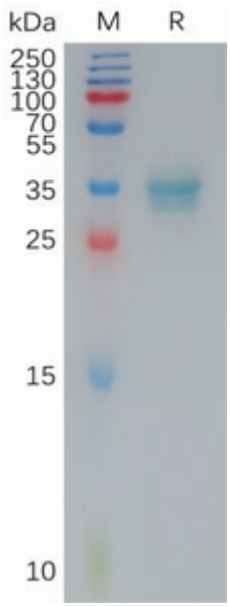

Figure 1. Human CLDN4(145-157) Protein, hFc Tag on SDS-PAGE under reducing condition.