Recombinant Full Length Human CLDN1 Protein, C-Flag-tagged

Cat. No. CLDN1-1419HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CLDN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	22.6 kDa
AA Sequence	MANAGLQLLGFILAFLGWIGAIVSTALPQWRIYSYAGDNIVTAQAMYEGLWMSCVSQ STGQIQCKVFDSL LNLSSTLQATRALMVVGILLGVIAIFVATVGMKCMKCLEDDEVQK MRMAVIGGAIFLLAGLAILVATAWY GNRIVQEFYDPMTPVNARYEFGQALFTGWAA

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	ASLCLLGGALLCCSCPRKTTSYPTPRPYPKPAPSSGKDY VTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Tight junction
Full Length	Full L.

GENE INFORMATION

Gene Name	CLDN1 claudin 1 [Homo sapiens (human)]
Official Symbol	CLDN1
Synonyms	CLD1; SEMP1; ILVASC
Gene ID	9076

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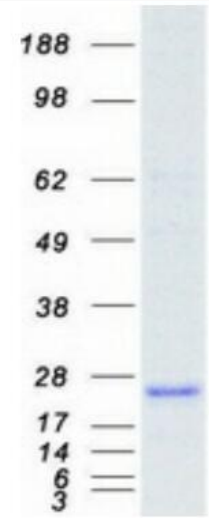
mRNA Refseq	NM_021101.5
Protein Refseq	NP_066924.1
MIM	603718
UniProt ID	O95832



Coomassie blue staining of purified CLDN1 protein.

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