

Recombinant Human CLDN1, GST-tagged

Cat. No. CLDN1-11283H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLDN1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-211a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	CLDN1 claudin 1 [Homo sapiens]
Official Symbol	CLDN1
Synonyms	CLDN1; claudin 1; claudin-1; ILVASC; SEMP1; senescence associated epithelial membrane protein 1; senescence-associated epithelial membrane protein 1; CLD1;
Gene ID	9076
mRNA Refseq	NM_021101
Protein Refseq	NP_066924
MIM	603718
UniProt ID	O95832
Chromosome Location	3q28-q29
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem;
Function	identical protein binding; structural molecule activity;

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