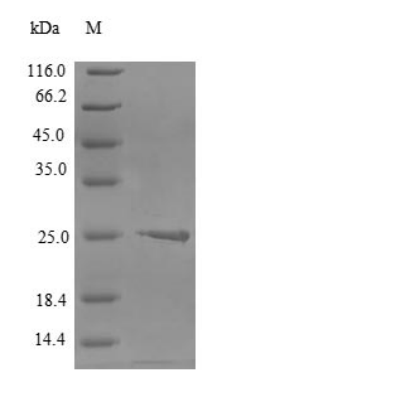
Recombinant Human Claudin-6 (CLDN6), partial

Product Code	CSB-CF005508HU
Relevance	Plays a major role in tight junction-specific obliteration of the intercellular space (By similarity). May act as a coreceptor for HCV entry into hepatic cells.
Abbreviation	Recombinant Human CLDN6 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P56747
Product Type	Transmembrane Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWM SCVVQSTGQMQCKVYDSLLALPQDLQAARA
Research Area	Microbiology
Source	in vitro E.coli expression system
Target Names	CLDN6
Protein Names	Skullin
Expression Region	1-82aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	24.8kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

	This recombinant HumanCLDN6 protein is an in vitro E.coli (cell-free) expressed partial protein. Its purity is 90%+ determined by SDS-PAGE. Cell-free protein expression is the in vitro synthesis of a protein using translation-compatible extracts of whole cells. In principle, whole-cell extracts contain all the macromolecules and components needed for transcription, translation, and even post-translational modification. These components include RNA polymerase, regulatory protein factors, transcription factors, ribosomes, and tRNA. When supplemented with cofactors, nucleotides, and the specific gene template, these extracts can synthesize proteins of interest in a few hours. CLDN6 is a tight junction molecule that participates in cell-to-cell adhesion of epithelial or endothelial cell sheets and maintains cell integrity. CLDN6 is important for the formation of barriers, especially the lung epithelial barrier and the epidermal permeability barrier (EPB), which prevent solutes and water from freely traversing through the extracellular space. CLDN6 is abnormally expressed in numerous malignancies such as ovarian cancer and testicular cancer and is implicated in cancer initiation, proliferation, apoptosis, migration, invasion, and progression. Its abnormal expression is also associated with Hepatitis C infection.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.