

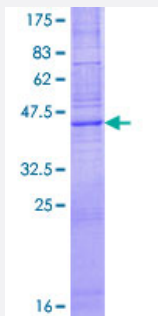
Full-Length

CLDN7 (Human) Recombinant Protein (P01)

Catalog # H00001366-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CLDN7 full-length ORF (NP_001298.2, 1 a.a. - 211 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MANSGLQLLGFSMALLGWVGLVACTAIPQWQMSSYAGDNIITAQAMYKGLWMDCVTQSTGMMS CKMYDSVLALSAALQATRALMVVSLVLGFLAMFVATMGMKCTRCGGDDKVKKARIAMGGGIIFV AGLATLVACSWYGHQIVTDFYNPLIPTNICYEFGPAIFIGWAGSALVILGGALLSCSCPGNESKAGYR APRSYPKSNSSKEYV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	48.8
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CLDN7

Entrez GeneID	1366
GeneBank Accession#	NM_001307.3
Protein Accession#	NP_001298.2
Gene Name	CLDN7
Gene Alias	CEPTRL2, CPETRL2, Hs.84359, claudin-1
Gene Description	claudin 7
Omim ID	609131
Gene Ontology	Hyperlink
Gene Summary	Claudins, such as CLDN7, are involved in the formation of tight junctions between epithelial cells. Tight junctions restrict lateral diffusion of lipids and membrane proteins, and thereby physically define the border between the apical and basolateral compartments of epithelial cells (Zheng et al., 2003 [PubMed 14502431]).[supplied by OMIM]
Other Designations	Clostridium perfringens enterotoxin receptor-like 2 claudin 9

Publication Reference

- [Trypsin-2 enhances carcinoma invasion by processing tight junctions and activating ProMT1-MMP.](#)

Vilen ST, Suojanen J, Salas F, Risteli J, Ylipalosaari M, Itkonen O, Koistinen H, Baumann M, Stenman UH, Sorsa T, Salo T, Nyberg P.

Cancer Investigation 2012 Oct; 30(8):583.

Application: Enzyme, Func, Recombinant protein

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)
- [Tight junction](#)