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## Product Data Sheet

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Product Name: CLDN4 Human  
 Cat. No.: GP23166  
 Batch No.: 1

### Product Data

|                     |  |                    |                       |
|---------------------|--|--------------------|-----------------------|
| Purity              | >98%   | Source             | Escherichia Coli.     |
| Physical Appearance | solid  | Shipping Condition | Shipped at Room temp. |
| Synonyms            | Claudin 4; CPE-R; CPE-receptor; Clostridium perfringens enterotoxin receptor 1; WBSCR8; Williams-Beuren syndrome chromosomal region 8 protein; CPETR1.   |                    |                       |
| Amino Acid Sequence | MKHHHHHHAS MWRVTAFIGS NIVTSQTIWE GLWMNCVVQS TGQMCKVYD SLLALPQDLQ AAR LEVLFQG PTAHNIIQDF YNPLVASGQK REM MWRVTAFIGS NIVTSQTIWE GLWMNCVVQS TGQMCKVYD SLLALPQDLQ AAR LEVLFQG PTAHNIIQDF YNPLVASGQK REM.  |                    |                       |
| Solubility          | It is recommended to add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10ug/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. |                    |                       |
| Formulation         | Filtered (0.4 μm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.   |                    |                       |

### Introduction

CLDN4 encodes an integral membrane protein that is a member of the claudin family. CLDN4 is a factor of tight junction strands and takes part in internal organ development and function in pre- and postnatal life. CLDN4 is removed in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

### Background

The CLDN4 Protein Human is produced in E. coli, and its molecular weight is 10.63 kDa. The protein containing 93 amino acid residues of the human CLDN4, 10 amino acid N-Terminal HisTag residues and 8 additional amino acid PreScission protease cleavage site. The protein is a fusion protein consisting of two extracellular domains of claudin-4 linked together with the PreScission protease LEVLFQGP cleavage site.

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