

# Human Claudin-18.2 Full Length Protein, Flag,His Tag (Detergent)

Catalog # CL2-H51D3



BIOSYSTEMS  
**Acro**

## Application

- Immunization
- Affinity testing (SPR / BLI)
- Screening ([ELISA](#))

## Synonyms

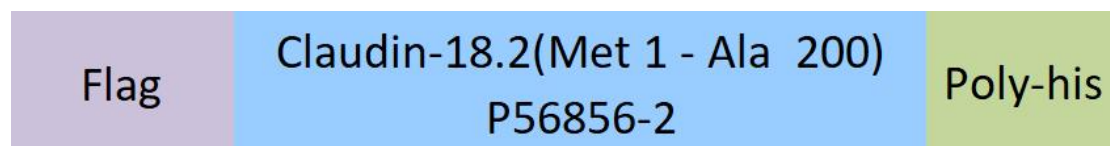
Claudin-18.2, CLDN18, Claudin-18

## Source

Detergent Human Claudin-18.2 Full Length Protein, Flag,His Tag (CL2-H51D3) is expressed from *E. coli* cells. It contains AA Met 1 - Ala 200 (Accession # [P56856-2](#)).

Predicted N-terminus: Met

## Molecular Characterization

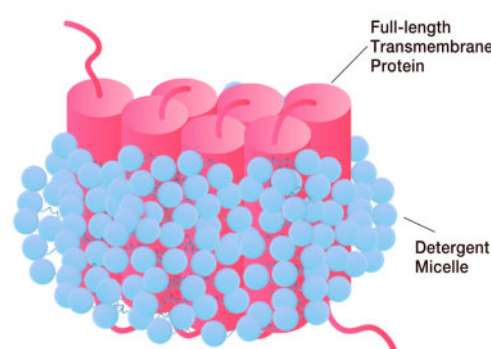


This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 26.9 kDa.

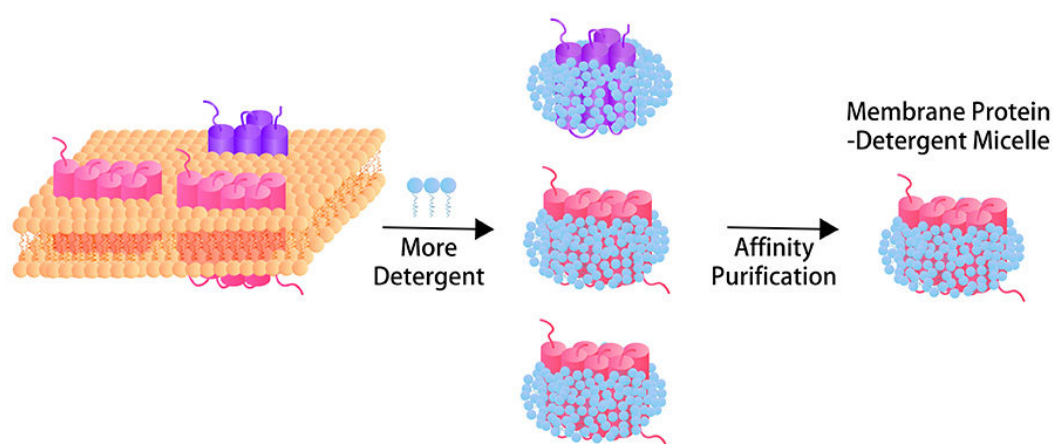
\*The detergent Buffer B (Cat. No. [LG-13](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

### • Structure



Each full-length transmembrane protein is encapsulated by detergent micelle.

### • Synthesis Process



Through **mild detergent micelle extraction**, dedicated solubilization, and stringent affinity purification, we maximally retain the native transmembrane conformation of full-length transmembrane proteins throughout downstream purification. This workflow yields purified, detergent-solubilized proteins free of unrelated membrane impurities and exogenous scaffold proteins, with **exceptional purity, accurate quantitation**, and well-preserved biological activity—ideal for immunization, binding assays in antibody discovery and screening (ELISA) and affinity testing (SPR and BLI), etc.

## Formulation

**This product is not suitable for cell based experiments due to cytotoxicity of detergent.**

**Detergent buffer is INDISPENSABLE to keep membrane protein soluble and active, under no circumstances should you remove detergent.**

**Detergent buffer is sold separately and not included in protein, and please contact us if you need the buffer.**

**If glycerol is not compatible with your application, remove glycerol just before the immediate experiment, and NEVER store glycerol-free protein solution.**

Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 150 mM NaCl, Buffer B, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping and Storage

This product is supplied and shipped on dry ice.

**Please avoid repeated freeze-thaw cycles.**

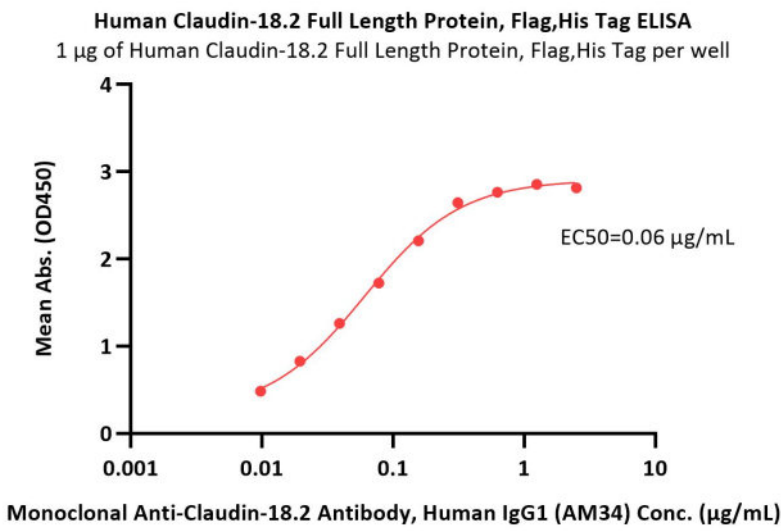
This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 6 months under sterile conditions.

## ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

## Bioactivity-ELISA



Immobilized Human Claudin-18.2 Full Length Protein, Flag,His Tag (Cat. No. CL2-H51D3) at 10 µg/mL (100 µL/well) on a Nickel Coated plate (Cat. No. SP-19) can bind Monoclonal Anti-Claudin-18.2 Antibody, Human IgG1 (AM34) with a linear range of 0.01-0.156 µg/mL (QC tested).

## Background

A tight junction protein normally confined to gastric mucosa but exposed on tumor cell surfaces during malignant transformation. It is a premier target in gastric and pancreatic adenocarcinoma, with the monoclonal antibody zolbetuximab demonstrating significant survival benefit in CLDN18.2-positive advanced disease.

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