Human Claudin-18.1 Full Length Protein, His Tag (Nanodisc-pro)

Catalog # CL1-H55H4

Application

- Cell based assay (FACS or functional assay)
- Affinity testing (SPR / BLI)
- Screening (ELISA)

Synonyms

Claudin-18.1, CLDN18, Claudin-18

Source

Nanodisc-pro Human Claudin-18.1 Full Length Protein, His Tag (CL1-H55H4) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ala 200 (Accession # P56856-1).

Predicted N-terminus: Met

Molecular Characterization

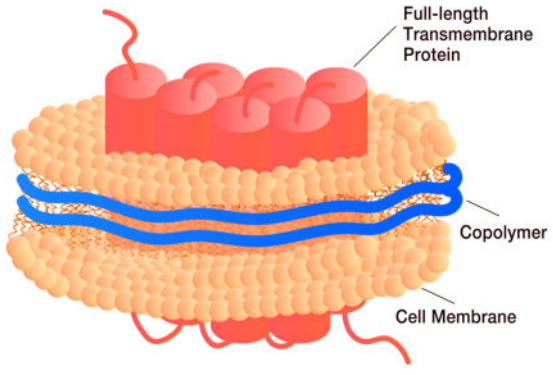


This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 83.2 kDa.

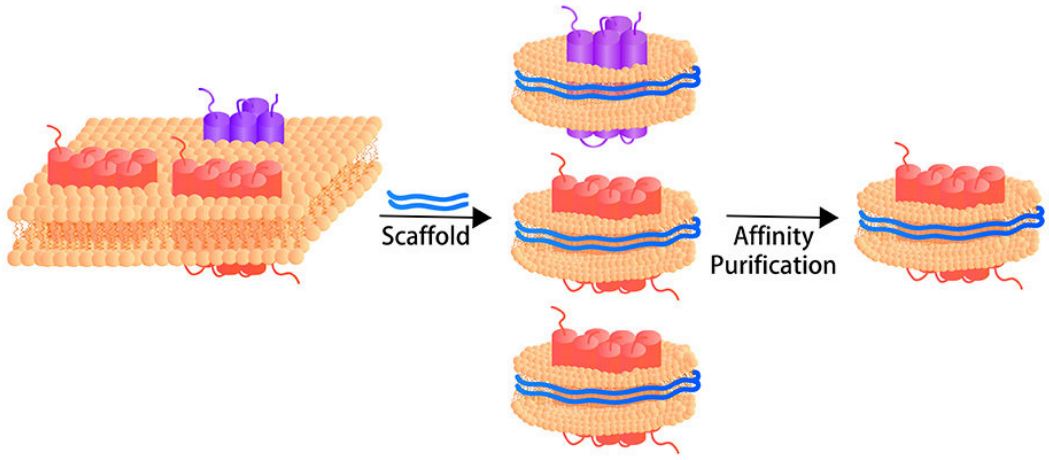
*The isotype control of empty/mock nanodisc (Cat. No. APO-H5143) is sold separately and not included in protein, you can follow the link for product information.

- **Structure**



Nanodisc-pro membrane protein is wrapped by a piece of cell membrane and scaffold, the info of scaffold can be found in above red text "isotope type control...".

- **Synthesis Process**



Nanodisc-pro membrane protein extraction is a gentle, non-disruptive process that **directly isolates full-length transmembrane proteins together with their surrounding native phospholipids from cellular membranes**, without breaking or disturbing the original membrane structure. This preserves the membrane protein's natural conformational landscape and native lipid environment, yielding stable nanodisc that retain cellular phospholipids, with fully preserved biological activity—making them **ideal for cell-based assays such as FACS** and binding assays in antibody discovery and screening (ELISA), etc.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Formulation

Supplied as 0.2 μm filtered solution in 20 mM HEPES, 150 mM NaCl, 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.

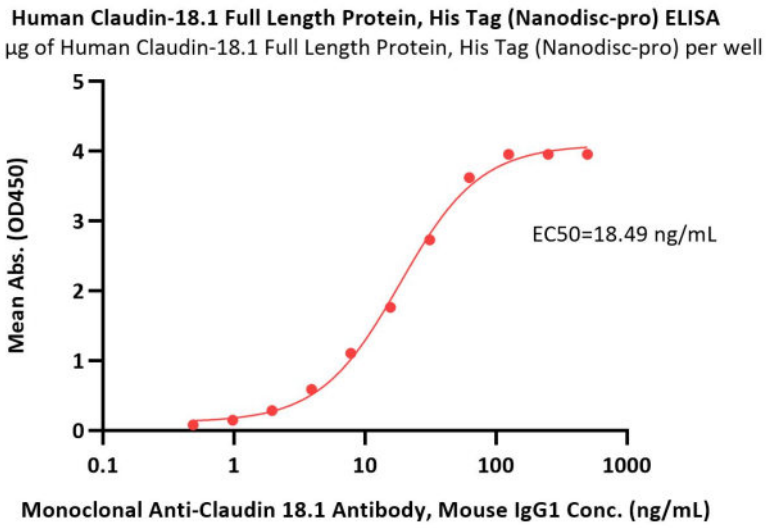
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

Activity-ELISA



Immobilized Human Claudin-18.1 Full Length Protein, His Tag (Nanodisc-pro) (Cat. No. CL1-H55H4) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-Claudin 18.1 Antibody, Mouse IgG1 with a linear range of 0.5-63 ng/mL (QC tested).

Background

The lung-specific splice variant of Claudin-18, forming tight junction strands in alveolar epithelium. It is the dominant isoform in normal lung tissue. Therapeutic targeting focuses exclusively on the cancer-associated Claudin-18.2 isoform, requiring high-specificity antibodies to avoid cross-reactivity and pulmonary toxicity.