

Claudin-18.2 Protein, Human, Recombinant (His)

General Information

Synonyms: Claudin-18;CLDN18

Protein Construction: Asp28-Leu76

Species: Human

Expression Host: E. coli

Accession: P56856-2

Molecular Weight: 18 KDa (reducing condition)

AA Sequence: Asp28-Leu76

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Endotoxin: < 0.1 ng/µg (1 EU/µg) as determined by LAL test.

Formulation: Supplied as a 0.2 µm filtered solution of 25 mM Tris-HCl, 25 mM NaCl, 0.1% Triton X-100, 10% glycerol, 0.1 mM GSH, 0.01 mM GSSG, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

Shipping with blue ice.

Protein Background

Claudin-18(CLDN18) is a protein that in humans is encoded by the CLDN18 gene. It belongs to the group of claudins. CLDN18 belongs to the large claudin family of proteins, which form tight junction strands in epithelial cells. CLDN18 plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. CLDN18 has two isoform A1 and isoform A2. IMAB362 (Claudiximab) is a monoclonal antibody against isoform 2 of Claudin-18. It is under investigation for the treatment of gastrointestinal adenocarcinomas and pancreatic tumors. IMAB362 was developed by Ganymed Pharmaceuticals AG.

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