Data Sheet (Cat.No.TMPY-07232)

TargetMol

Claudin-18.2 Protein-VLP, Mouse, Recombinant (His & Strep)

General Information

Synonyms: Cldn18

Protein Construction: A DNA sequence encoding the Mouse CLDN18 (Full Length) (P56857-3) (Ser2-Val264) was expressed, with a polyhistidine tag at the N-terminus and a Strep tag at the C-terminus.

Species: Mouse

Expression Host: HEK293 Cells

Accession: P56857-3

Molecular Weight: 30.56 kDa (predicted)

QC Testing

Biological Activity: Immobilized Recombinant Mouse Claudin-18.2 Protein (VLP, Full-Length, His & Strep Tag) at 5 μg/mL (100 μL/well) can bind Osemitamab, the EC50 is 3-15 ng/mL.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

Samples are stable for up to twelve months from date of receipt at -70℃. Store it under sterile conditions at -70℃ or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Claudins family member Claudin18 (CLDN18) is a four-pass transmembrane protein with two extracellular loops and cytoplasmic N- and C-tails found in tight junctions. CLDN18 modulates paracellular permeability, polarity, and signaling. CLDN18 deficiency has been associated with atrophic gastritis, spasmolytic polypeptide-expressing metaplasia (SPEM), and asthma. Lung-specific CLDN18.1 modulates alveolar epithelial type II (AT2) cell proliferation and organ size. Restoration of CLDN18.1 expression in human lung cancer cells has been shown to suppress proliferation, inhibiting the IGF-1R/AKT axes. Not expressed in other healthy tissues, gastric mucosa-specific isoform CLDN18.2 expression manifests in primary gastric cancers. CLDN18.2 at the surface of epithelial tumor cells is a target in antibody and CAR-therapies currently in development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481