

Human CLDN11 / Claudin-11 Protein (Fc Tag)

Catalog Number: 12903-H04H



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Biological Solution Specialist

General Information

Gene Name Synonym:

OSP; OTM; Claudin-11; Claudin11; Osp; Otm

Protein Construction:

A DNA sequence encoding the human CLDN11 (O75508) (Val23-Arg82) was expressed with the Fc region of mouse IgG1 at the N-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asp

Molecular Mass:

The recombinant human CLDN11/mFc comprises 296 amino acids and has a predicted molecular mass of 33.2 kDa. The apparent molecular mass of the monomer is approximately 37 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

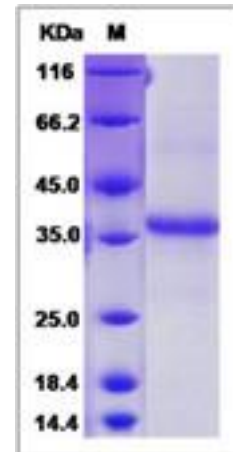
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Claudin-11, also known as CLDN11, belongs to the group of claudins. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands function as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. Claudin-11 is a tight junction associated protein and is a major component of central nervous system (CNS) myelin that is necessary for normal CNS function. Human blood-testis barrier disruption is related to a dysfunction of CLDN11 gene. It plays an important role in regulating proliferation and migration of oligodendrocytes.

References

1. Tsukita S, *et al.* (2001) Multifunctional strands in tight junctions. *Nat Rev Mol Cell Biol.* 2(4): 285-3.
2. Heiskala M, *et al.* (2001) The roles of claudin superfamily proteins in paracellular transport. *Traffic* 2. (2):93-8.
3. Bronstein JM, *et al.* (2000) Involvement of OSP/claudin-11 in oligodendrocyte membrane interactions: role in biology and disease. *J Neurosci Res.* 59(6):706-11.

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