

Recombinant Mouse Cldn5 Protein, His-tagged

Cat. No. Cldn5-795M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cldn5 Protein (Met1-Glu7+Met29-Arg81+Gln103-Ala123+Arg145-Leu160+Cys182-Val218) with His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Glu7+Met29-Arg81+Gln103-Ala123+Arg145-Leu160+Cys182-Val218
Description	This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve 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. The protein encoded by this gene is a critical component of endothelial tight junctions that control pericellular permeability. The knockout mice lacking this gene died within 10 h of birth and the blood-brain barrier in these mice against small molecules was selectively affected. This gene is expressed strongly in endothelium of normal lung and plays a regulation role during acrolein-induced acute lung injury.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.7 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Cldn5 claudin 5 [Mus musculus (house mouse)]
Official Symbol	Cldn5
Synonyms	CLDN5; claudin 5; claudin-5; lung-specific membrane protein; transmembrane protein deleted in VCFS; brain endothelial cell clone 1 protein; MBEC1; Tmvmcf; AI854493; MGC102088;
Gene ID	12741
mRNA Refseq	NM_013805
Protein Refseq	NP_038833

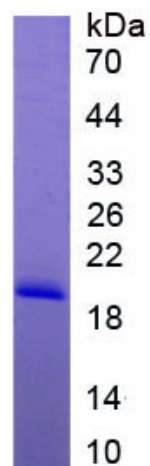
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