

# Human CD98 Protein

Cat. No. CD9-HM198

## Description

<b>Source</b>	Recombinant Human CD98 Protein is expressed from Expi293 with His tag at the N-terminal. It contains Arg206-Ala630.
<b>Accession</b>	AAH01061
<b>Molecular Weight</b>	The protein has a predicted MW of 47.9 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

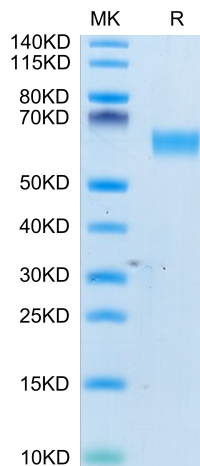
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

## Background

The type II transmembrane protein CD98, best known as the heavy chain of the heterodimeric amino acid transporters (HAT), is required for the surface expression and basolateral localization of this transporter complex in polarized epithelial cells. CD98 also interacts with beta1 integrins resulting in an increase in their affinity for ligand. In this study we explored the role of the transmembrane and cytoplasmic domains of CD98 on integrin-dependent cell adhesion and migration in polarized renal epithelial cells.

## Assay Data

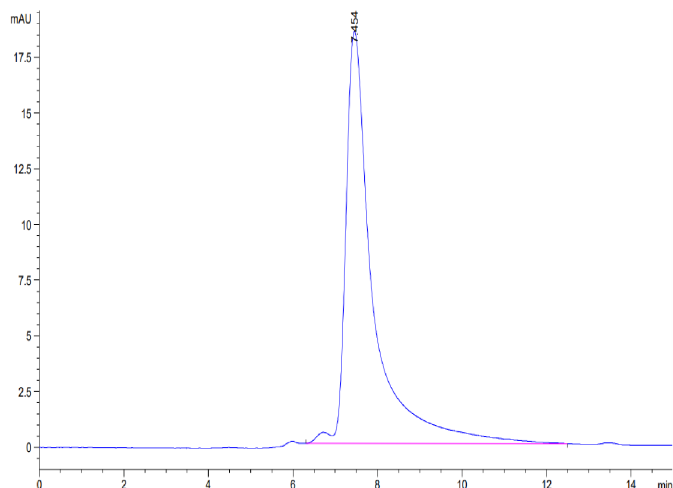
### Tris-Bis PAGE



Human CD98 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

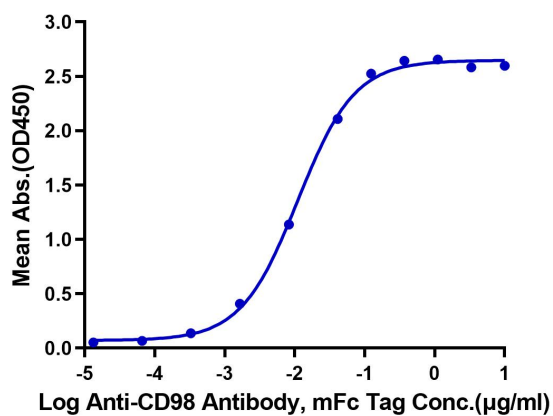
Assay Data



The purity of Human CD98 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human CD98, His Tag ELISA**  
0.05µg Human CD98, His Tag Per Well



Immobilized Human CD98, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD98 Antibody, mFc Tag with the EC50 of 11.1ng/ml determined by ELISA.