

Biotinylated Human CD98 Protein

Cat. No. CD9-HM498B

Description

Source	Recombinant Biotinylated Human CD98 Protein is expressed from HEK293 with His tag and Avi tag at the N-terminus. It contains Arg206-Ala630.
Accession	AAH01061
Molecular Weight	The protein has a predicted MW of 49.75 kDa. Due to glycosylation, the protein migrates to 50-65 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

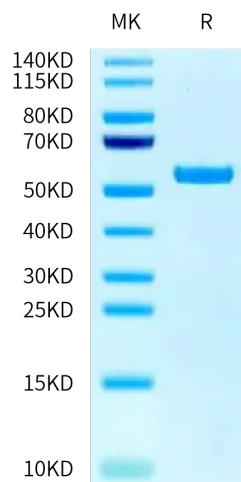
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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



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

ELISA Data

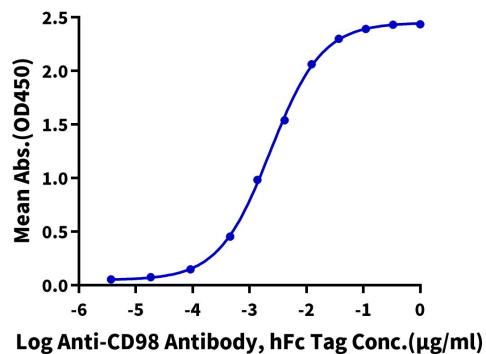
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Assay Data

Biotinylated Human CD98, His Tag ELISA

0.1µg Biotinylated Human CD98, His Tag Per Well



Immobilized Biotinylated Human CD98, His Tag at 1µg/ml (100µl/well) on the streptavidin pre-coated plate (5µg/ml). Dose response curve for HAnti-CD98 Antibody, hFc Tag with the EC50 of 2.3ng/ml determined by ELISA.