

Cynomolgus CD98 Protein

Cat. No. CD9-CM198



Description

Source	Recombinant Cynomolgus CD98 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Arg175-Ala599.
Accession	XP_045227941.1
Molecular Weight	The protein has a predicted MW of 48.02 kDa. Due to glycosylation, the protein migrates to 50-70 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 > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS, 200mM L-arginine (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

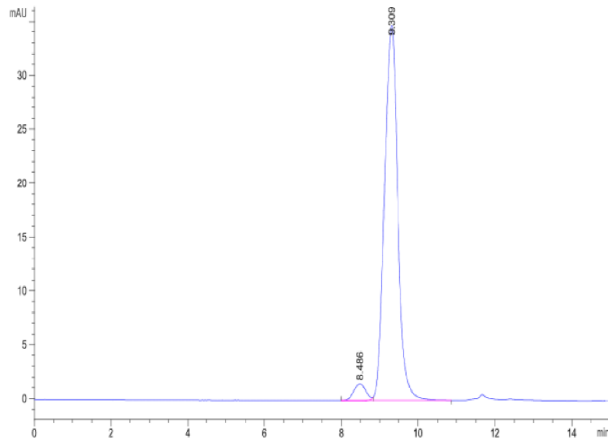
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



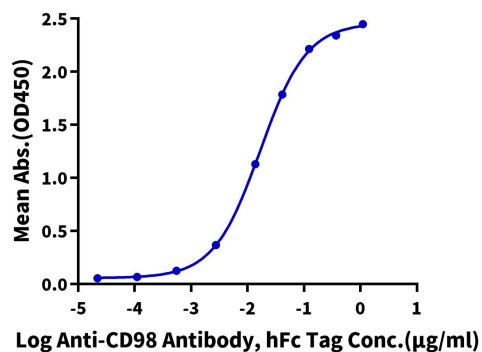
The purity of Cynomolgus CD98 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Cynomolgus CD98, His Tag ELISA

0.1µg Cynomolgus CD98, His Tag Per Well



Immobilized Cynomolgus CD98, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD98 Antibody, hFc Tag with the EC50 of 16.8ng/ml determined by ELISA.