Rat CD98 Protein, Ultra Low Endotoxin

Cat. No. CD9-RM198-UL

Description

Source	Recombinant Rat CD98 Protein is expressed from HEK293 with His tag at the N-terminus.
	It contains Arg99-Ala527.
Accession	Q794F9
Molecular Weight	The protein has a predicted MW of 48.59 kDa. Due to glycosylation, the protein migrates to 60-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

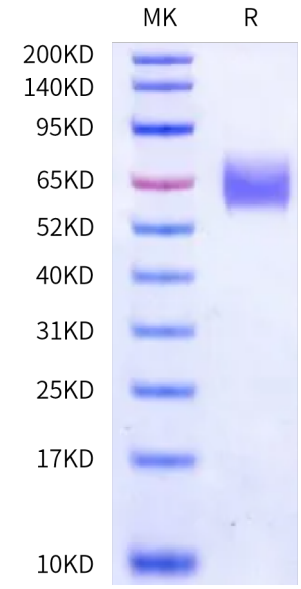
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE



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

SEC-HPLC

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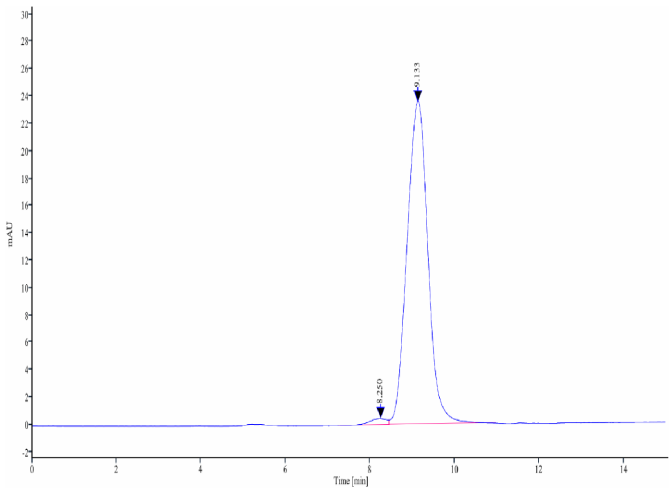

The purity of Rat CD98 is greater than 95% as determined by SEC-HPLC.