

Mouse CD3E&CD3D/CD3 epsilon&CD3 delta Protein

Cat. No. CD3-MM205

Description

Source	Recombinant Mouse CD3E&CD3D/CD3 epsilon&CD3 delta Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Asp23-Asp108(CD3E)&Phe22-Ala105(CD3D).
Accession	P22646(CD3E)&P04235(CD3D)
Molecular Weight	The protein has a predicted MW of 36.1 kDa (CD3E) and 35.2 kDa (CD3D). Due to glycosylation, the protein migrates to 50-65 kDa and 40-50 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

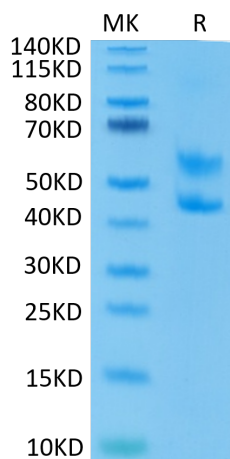
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-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

T-cell surface glycoprotein CD3 epsilon & CD3 delta chain, also known as CD3E & CD3D, are single-pass type I membrane proteins. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain.

Assay Data

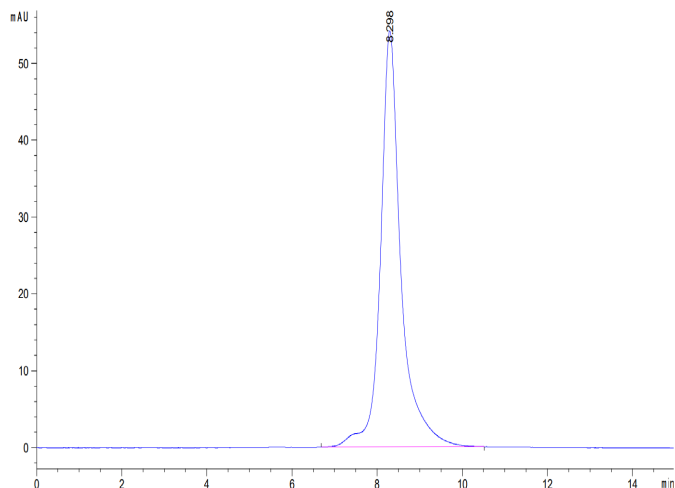
Tris-Bis PAGE



Mouse CD3E&CD3D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Mouse CD3E&CD3D is greater than 95% as determined by SEC-HPLC.