

Mouse CD3E&CD3D/CD3 epsilon&CD3 delta Protein, Ultra Low Endotoxin



Cat. No. CD3-MM205-UL

Description

Source	Recombinant Mouse CD3E&CD3D/CD3 epsilon&CD3 delta Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus of CD3E and CD3D. It contains Asp23-Asp108(CD3E) and 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 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

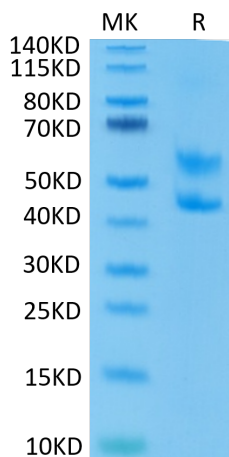
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

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.

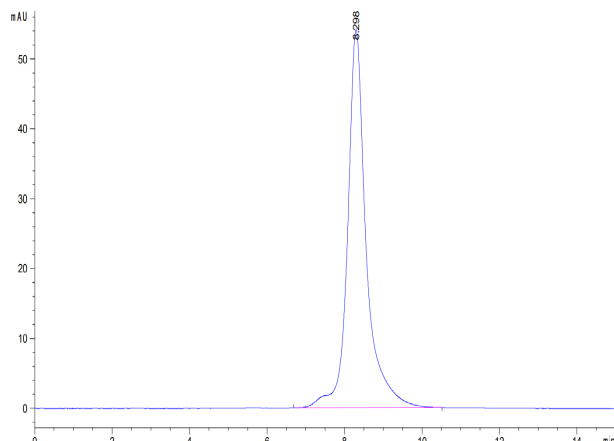
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

Assay Data

ELISA Data

Immobilized Mouse CD3E&CD3D, hFc Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-CD3E Antibody (145-2C11), mFc Tag with the EC50 of 23.4ng/ml determined by ELISA.