

Cynomolgus CD3E&CD3G/CD3 epsilon&CD3 gamma Protein

Cat. No. CD3-CM202

Description

Source	Recombinant Cynomolgus CD3E&CD3G/CD3 epsilon&CD3 gamma Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Gln22-Asp117(CD3E)&Gln23-Thr113(CD3G).
Accession	Q95LI5.2(CD3E)&Q95LI7(CD3G)
Molecular Weight	The protein has a predicted MW of 36.9 kDa (CD3E) and 36.5 kDa (CD3G). Due to glycosylation, the protein migrates to 44-46 kDa&46-48 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

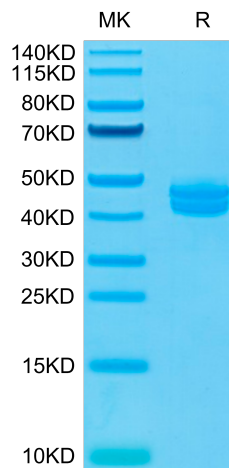
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -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 gamma chain, also known as CD3E & CD3G, 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

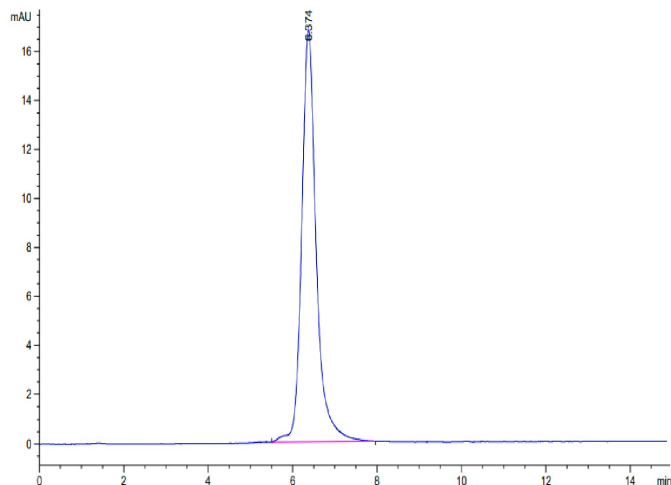
Tris-Bis PAGE



Cynomolgus CD3E&CD3G on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

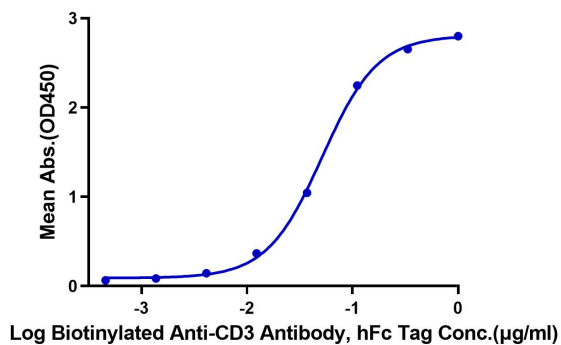
Assay Data



The purity of Cynomolgus CD3E&CD3G was greater than 95% as determined by SEC-HPLC.

ELISA Data

Cynomolgus CD3E&CD3G, hFc Tag ELISA
0.05µg Cynomolgus CD3E&CD3G, hFc Tag Per Well



Immobilized Cynomolgus CD3E&CD3G, hFc Tag at 0.5µg/ml (100µl/Well). Dose response curve for Biotinylated Anti-CD3 Antibody, mFc Tag with EC50 of 51.2ng/ml determined by ELISA.