

Biotinylated Human CD3E&CD3G/CD3 epsilon&CD3 gamma Protein



Cat. No. CD3-HM457B

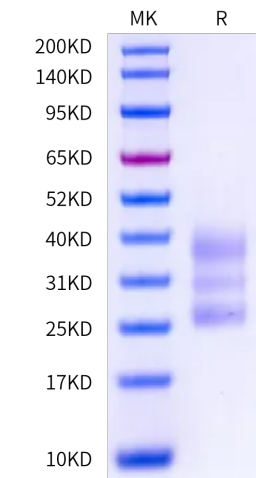
Description	
Source	Recombinant Human CD3E&CD3G Protein is expressed as a heterodimer of CD3E and CD3G by co-expression in HEK293. Subunit CD3E contains no tag and subunit CD3G is fused with a His tag and an Avi tag at the C-terminus. It contains Gln22-Asp126 (CD3E) and Gln23-Ser116 (CD3G).
Accession	P07766(CD3E)&P09693(CD3G)
Molecular Weight	The protein has a predicted MW of 17.92 kDa (CD3E) and 19.67 kDa (CD3G). Due to glycosylation, the protein migrates to 25-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize 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.	

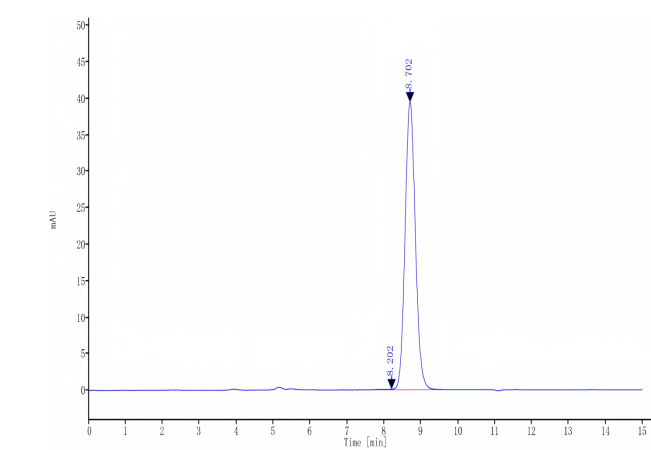
Assay Data

Bis-Tris PAGE



Biotinylated Human CD3E&CD3G on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

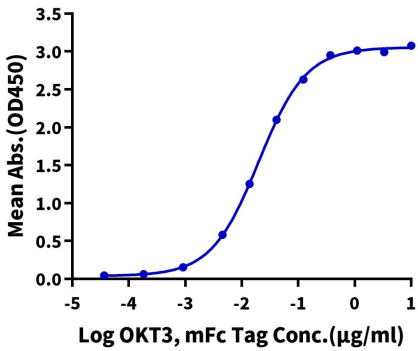


The purity of Biotinylated Human CD3E&CD3G is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human CD3E&CD3G, His Tag ELISA
0.2µg Biotinylated Human CD3E&CD3G, His Tag Per Well



Immobilized Biotinylated Human CD3E&CD3G, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for OKT3, mFc Tag with the EC50 of 19.9ng/ml determined by ELISA.