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





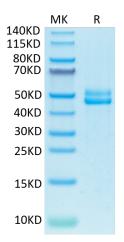
Description	
Source	Recombinant Biotinylated Human CD3E&CD3G/CD3 epsilon&CD3 gamma Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus.
	It contains Asp23-Asp126(CD3E) & Gln23-Ser116(CD3G).
Accession	P07766(CD3E)&P09693(CD3G)
Molecular Weight	The protein has a predicted MW of 40 kDa (CD3E) and 36.5 kDa (CD3G). Due to glycosylation, the protein migrates to 48-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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	Centrifuge the tube 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 receipt80°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 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.

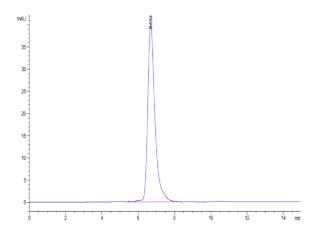
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



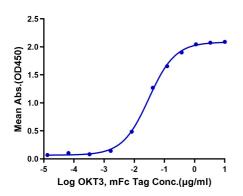
The purity of Biotinylated Human CD3E&CD3G is greater than 95% as determined by SEC-HPLC.



Assay Data

ELISA Data

Biotinylated Human CD3E&CD3G, hFc Tag ELISA 0.1µg Biotinylated Human CD3E&CD3G, hFc Tag Per Well

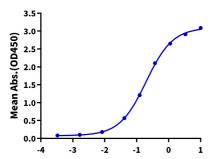


Immobilized Biotinylated Human CD3E&CD3G, hFc Tag at 1 μ g/ml (100 μ l/Well) on streptavidin (5 μ g/ml) precoated plate. Dose response curve for OKT3, mFc Tag with the EC50 of 30.3ng/ml determined by ELISA (QC Test).

ELISA Data

Biotinylated Human CD3E&CD3G, hFc-Avi Tag ELISA

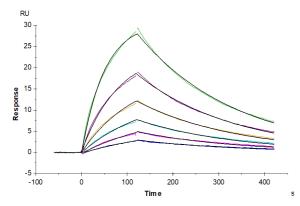
0.5μg Anti-CD3 Anitibody, hFc Tag Per Well



Log Biotinylated Human CD3E&CD3G, hFc-Avi Tag Conc.(µg/ml)

Immobilized Anti-CD3 Anitibody, hFc Tag at 5µg/ml(100µl/well) on the plate. Dose response curve for Biotinylated Human CD3E&CD3G, hFc-Avi Tag with the EC50 of 0.20µg/ml determined by ELISA.

SPR Data



Anti-CD3 Antibody, hFc Tag immobilized on CM5 Chip can bind Biotinylated Human CD3E&CD3G, hFc-Avi Tag with an affinity constant of 0.25 μ M as determined in SPR assay (Biacore T200).