Biotinylated Human CD3E/CD3 epsilon 1-27 Protein

Cat. No. CD3-HM2EDB

Description

Source	Recombinant Biotinylated Human CD3E/CD3 epsilon 1-27 Protein is expressed from HEK293 with hFc tag and Avi Tag at the C-Terminus.
	It contains Asp23-Thr48.
Accession	P07766
Molecular Weight	The protein has a predicted MW of 31.3 kDa. Due to glycosylation, the protein migrates to 40-50 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

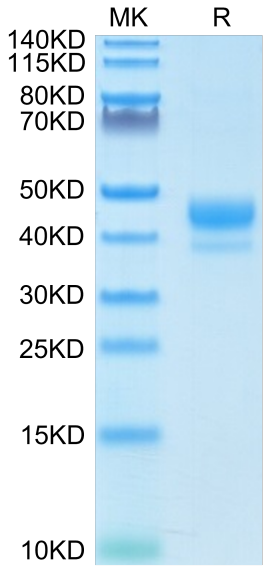
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled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

CD3E, is a single-pass type I membrane protein.CD3 (cluster of differentiation 3) T cell co-receptor helps to activate both the cytotoxic T cell (CD8 naive T cells) and also T helper cells (CD4 naive T cells). It consists of a protein complex and is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains.

Assay Data

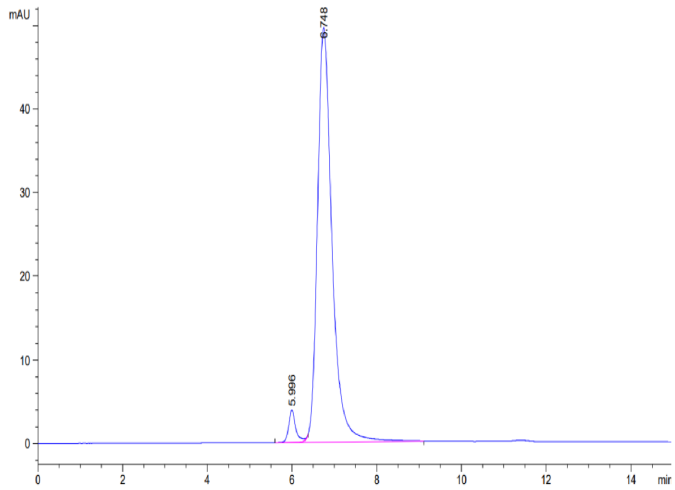
Bis-Tris PAGE



Biotinylated Human CD3E 1-27 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

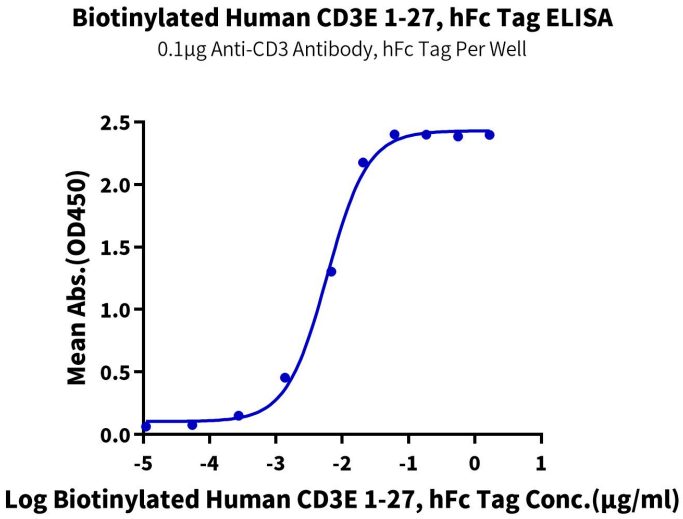
SEC-HPLC

Assay Data



The purity of Biotinylated Human CD3E 1-27 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Anti-CD3 Antibody, hFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human CD3E 1-27, hFc Tag with the EC50 of 5.9ng/ml determined by ELISA.