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CD3 epsilon Protein (CD3E) (AA 22-48) (Fc-Avi Tag,Biotin)





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Overview

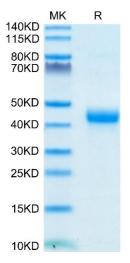
Quantity:	100 μg
Target:	CD3 epsilon (CD3E)
Protein Characteristics:	AA 22-48
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD3 epsilon protein is labelled with Fc-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Cynomolgus CD3E/CD3 epsilon 1-27 peptide Protein
Sequence:	Asp22-Thr48
Characteristics:	Recombinant Biotinylated Cynomolgus CD3E/CD3 epsilon 1-27 peptide Protein is expressed from HEK293 with hFc tag and Avi tag at the C-Terminus.It contains Asp22-Thr48.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	Immobilized Anti-CD3 Antibody, mFc Tag at 1µg/ml (100µl/well) on the plate. Dose response
	curve for Biotinylated Cynomolgus CD3E 1-27 peptide, hFc Tag with the EC50 of 6ng/ml
	determined by ELISA. See testing image for detail.

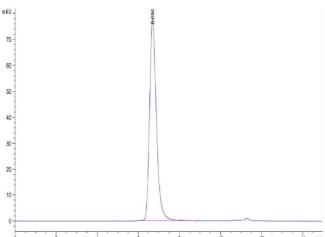
Target Details

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Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3E (CD3E Products)
Background:	CD3E, is a single-pass type I membrane protein.CD3 (cluster of differentiation 3) T cell coreceptor 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.
Molecular Weight:	31.3 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result
UniProt:	Q95LI5
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

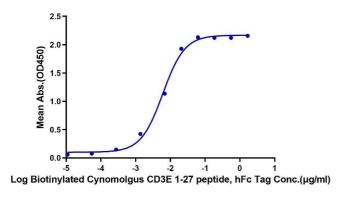
Image 1. Biotinylated Cynomolgus CD3E 1-27 peptide on Tris-Bis PAGE under reduced condition. The purity is greater than $95\,\%$.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Biotinylated Cynomolgus CD3E 1-27 peptide is greater than 95 % as determined by SEC-HPLC.

Biotinylated Cynomolgus CD3E 1-27 peptide, hFc Tag ELISA 0.1µg Anti-CD3E Antibody, mFc Tag Per Well



ELISA

Image 3. Immobilized Anti-CD3 Antibody, mFc Tag at 1 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Cynomolgus CD3E 1-27 peptide, hFc Tag with the EC50 of 6/6 ng/mL determined by ELISA.