

Datasheet for ABIN7274145

CD3E & CD3G (AA 23-120) protein (His tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD3E & CD3G
Protein Characteristics:	AA 23-120
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag,Biotin

Product Details

Purpose:	Biotinylated Human CD3E & CD3G/CD3 epsilon & CD3 gamma Protein (Primary Amine Labeling)
Sequence:	Asp23-Glu120 (CD3E) & Gln23-Asn106 (CD3G)
Specificity:	Uni-Prot: P07766 (CD3E), P09693 (CD3G)
Characteristics:	Recombinant Biotinylated Human CD3E & CD3G/CD3 epsilon & CD3 gamma Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus.It contains Asp23-Glu120(CD3E) & Gln23-Asn106(CD3G).
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 5µg/ml (100µl/well) on the plate. Dose response

Product Details

curve for Biotinylated Human CD3E&CD3G, His Tag with the EC50 of 0.43µg/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CD3E & CD3G
Alternative Name:	CD3E&CD3G
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.
Molecular Weight:	17.9 kDa (CD3E) and 17.9 kDa (CD3G). Due to glycosylation, the protein migrates to 25-40 kDa based on Tris-Bis PAGE result.
UniProt:	P07766

Application Details

Restrictions:	For Research Use only
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Handling

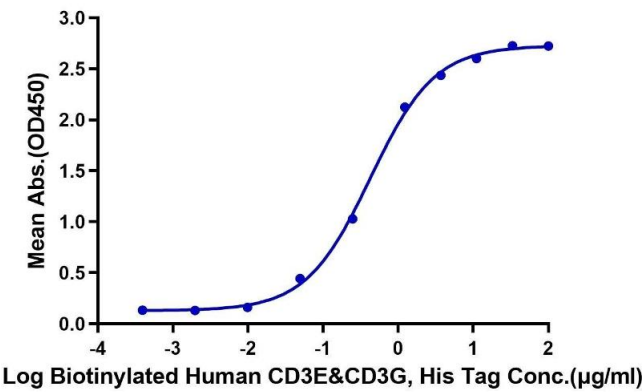
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant 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

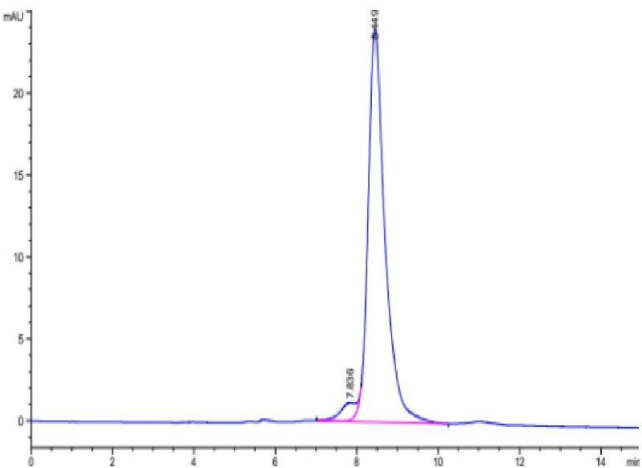
Image 1. Biotinylated Human CD3E&CD3G on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Biotinylated Human CD3E&CD3G, His Tag ELISA
0.5µg Anti-CD3 Antibody, mFc Tag Per Well



ELISA

Image 2. Immobilized Anti-CD3 Antibody, mFc Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human CD3E&CD3G, His Tag with the EC50 of 0.43 µg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Human CD3E&CD3G is greater than 95 % as determined by SEC-HPLC.