

Datasheet for ABIN7274147

CD3 epsilon Protein (CD3E) (AA 23-126) (Fc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD3 epsilon (CD3E)
Protein Characteristics:	AA 23-126
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD3 epsilon protein is labelled with Fc Tag.

Product Details

Purpose:	Human CD3E/CD3 epsilon Protein
Sequence:	Asp23-Asp126 (C119S, C122S)
Characteristics:	Recombinant Human CD3E/CD3 epsilon Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Asp23-Asp126(C119S, C122S).
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CD3E at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, mFc Tag with the EC50 of 26.7ng/ml determined by ELISA. See testing image for detail.

Target Details

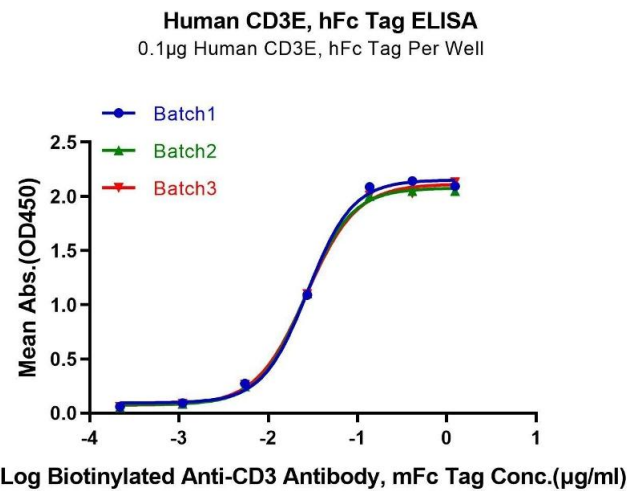
Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3E (CD3E Products)
Background:	T-cell surface glycoprotein CD3 epsilon & CD3 gamma chain, also known as CD3E & CD3G , are single-pass type I membrane proteins. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are 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:	36.1 kDa. Due to glycosylation, the protein migrates to 35-55 kDa based on Tris-Bis PAGE result.
UniProt:	P07766
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Restrictions:	For Research Use only
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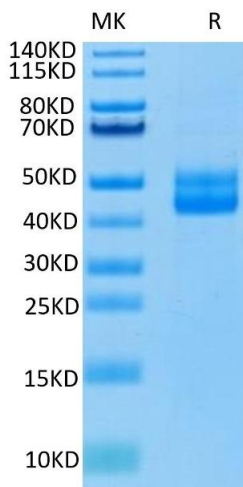
Handling

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



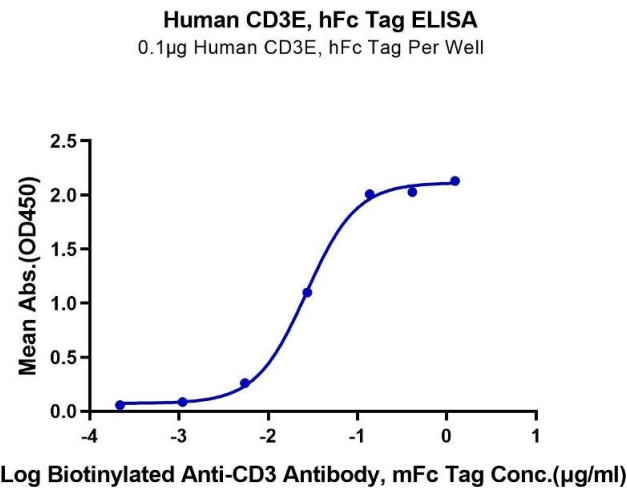
ELISA

Image 1. Immobilized Human CD3E at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, mFc Tag with the EC50 of 27.7 ng/mL / 26 ng/mL / 26.7 ng/mL determined by ELISA.



SDS-PAGE

Image 2. Human CD3E/CD3 epsilon monomer on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



ELISA

Image 3. Immobilized Human CD3E at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, mFc Tag with the EC50 of 26.7 ng/mL determined by ELISA.