

Biotinylated Recombinant Human CD3E&CD3D Protein

Catalog No.: RP00627B

Sequence Information

Species	Gene ID
Human	916&915
Swiss Prot	Tags
P07766(CD3E) &P04234(CD3D)	C-hFc&Avi

Synonyms

CD3; CD3e; CD3E; CD3d; T3D;
CD3D; CD3E&CD3D; CD3
delta&CD3 epsilon

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

40 kDa (CD3E), 48-60 kDa
35.4 kDa (CD3D)

Endotoxin

< 1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from 0.22 μm filtered
solution in PBS (pH 7.4). Normally
8% trehalose is added as
protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening.
Reconstitute to a concentration of
0.1-0.5 mg/mL in sterile distilled
water. Avoid vortex or vigorously
pipetting the protein. For long
term storage, it is recommended
to add a carrier protein or stabilizer
(e.g. 0.1% BSA, 5% HSA, 10% FBS
or 5% Trehalose), and aliquot the
reconstituted protein solution to
minimize free-thaw cycles.

Background

T-cell surface glycoprotein CD3 epsilon&CD3 delta chain, also known as CD3E&CD3D, 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.

Basic Information

Description

Biotinylated Recombinant Human CD3E&CD3D/CD3 epsilon&CD3 delta Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Asp126(CD3E) & Phe22-Ala105(CD3D)) of Human CD3E&CD3D/CD3 epsilon&CD3 delta (Accession #P07766(CD3E) & P04234(CD3D)) fused with a C-hFc&Avi tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

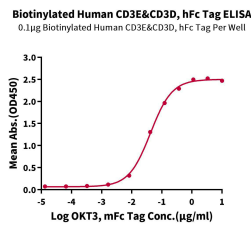
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

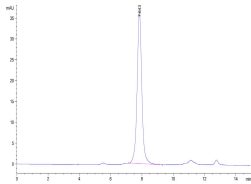
Contact

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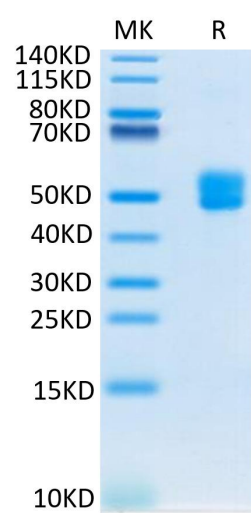
Validation Data



Immobilized Biotinylated Human CD3E&CD3D, hFc Tag at 1 µg/mL (100 µL/Well) on streptavidin (5 µg/mL) precoated plate. Dose response curve for OKT3, mFc Tag with the EC₅₀ of 42.1ng/mL determined by ELISA.



The purity of Biotinylated Human CD3E&CD3D was greater than 95% as determined by SEC-HPLC.



Biotinylated Recombinant Human CD3E&CD3D Protein was determined by Tris-Bis PAGE under reducing conditions.