

Biotinylated Recombinant Human CD3E&CD3G (Primary Amine Labeling)

Catalog No.: RP00415B Recombinant

Sequence Information

 Species
 Gene ID
 Swiss Prot

 Human
 916&917
 P07766(CD3 E)&P09693(CD3G)

Tags C-His

Synonyms

CD3; CD3G; CD3g; T3G; CD3e; CD3E; CD3 epsilon&CD3 gamma; CD3E&CD3G

Product Information

Source

Purification

HEK293 cells

≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

17.9 kDa (CD3E), 25-40 kDa 17.9 kDa (CD3G)

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

a 400-999-6126

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.

Basic Information

Description

Biotinylated Recombinant Human CD3E&CD3G/CD3 epsilon&CD3 gamma Protein (Primary Amine Labeling) is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Glu120(CD3E) & Gln23-Asn106(CD3G)) of Human CD3E&CD3G/CD3 epsilon&CD3 gamma (Primary Amine Labeling) (Accession #P07766(CD3E)&P09693(CD3G)) fused with a C-His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

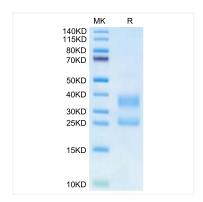
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

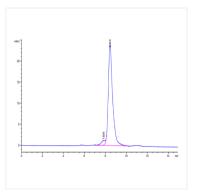
Operational Notes

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

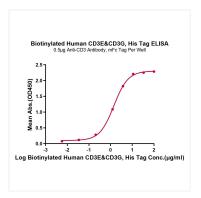
Validation Data



Biotinylated Recombinant Human CD3E&CD3G (Primary Amine Labeling) was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Anti-CD3 Antibody, mFc Tag at 5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Human CD3E&CD3G, His Tag with the EC₅₀ of 1.42 μ g/mL determined by ELISA.