

Biotinylated Recombinant Human CD3 epsilon Protein

Catalog No.: RP00599B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 916 P07766

Tags

C-His

Synonyms

CD3e; CD3E; T3E; FLJ18683; TCRE; CD3epsilon; IMD18

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

12.6 kDa 14-18 kDa

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

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Background

CD3E, is a single-pass type I membrane protein.CD3 (cluster of differentiation 3) T cell co-receptor 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 CD3 γ chain, a CD3 δ chain, and two CD3 ϵ chains.

Basic Information

Description

Biotinylated Recombinant Human CD3 epsilon Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Asp126) of Human CD3 epsilon (Accession #P07766) fused with a C-His tag at the C-terminus.

Bio-Activity

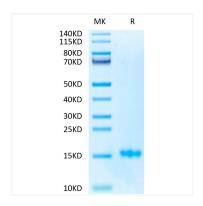
Storage

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

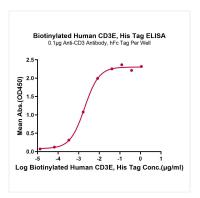
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Biotinylated Recombinant Human CD3 epsilon Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Anti-CD3 Antibody, hFc Tag at 1 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Biotinylated Human CD3E, His Tag with the EC₅₀ of 1.9ng/mL determined by ELISA.