

RP00600

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Recombinant Human CD3 epsilon (23-48) Protein

Catalog No.: RP00600

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	916	P07766

Tags

C-hFc&Avi

Synonyms

CD3ε; CD3E; T3E; FLJ18683; TCRE;
CD3-epsilon; IMD18

Product Information

Source

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.

Purification

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

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

Background

CD3ε, 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 CD3γ chain, a CD3δ chain, and two CD3ε chains.

Basic Information

Description

Recombinant Human CD3 epsilon (23-48) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Thr48) of Human CD3 epsilon (23-48) (Accession #P07766) fused with a C-hFc&Avi tag at the C-terminus.

Bio-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.

Operational Notes

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

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

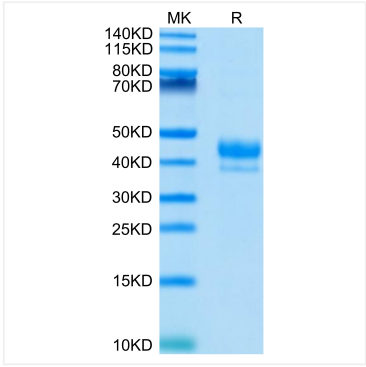
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Contact

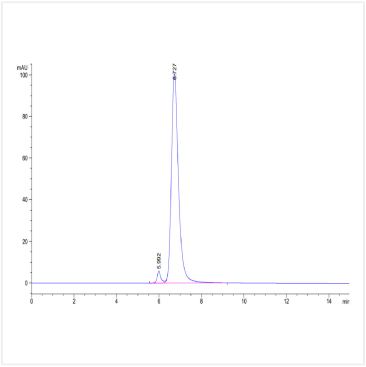


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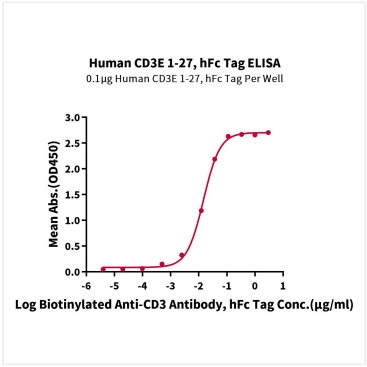
Validation Data



Recombinant Human CD3 epsilon (23-48) Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human CD3E 1-27 is greater than 95% as determined by SEC-HPLC.



Immobilized Human CD3E 1-27, hFc Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, hFc Tag with the EC₅₀ of 14.7ng/mL determined by ELISA.