Recombinant Human CD3 epsilon (23-48) Protein

Catalog No.: RP00600

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Sequence Information

Species
Human

Gene ID
916

Swiss Prot
P07766

Tags
C-hFc&Avi

Synonyms
CD3e; CD3E; T3E; FLJ18683; TCRE; CD3-epsilon; IMD18

Product Information

Source
HEK293 cells

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

Calculated MW
31.3 kDa

Observed MW
40-50 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.

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 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.

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℃

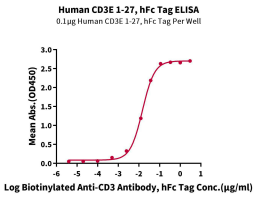
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

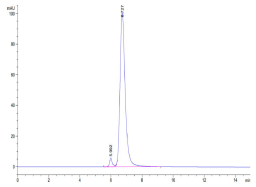
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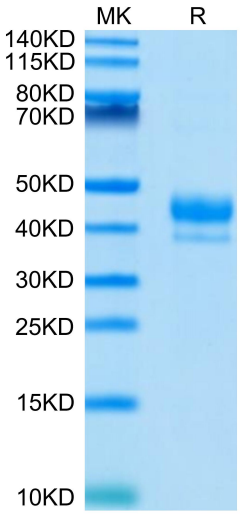
Validation Data



Immobilized 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 EC_{50} of 14.7ng/mL determined by ELISA.



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



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