

Biotinylated Recombinant Human CD3 epsilon/CD3E Protein

Catalog No.: RP02577 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human P07766

Tags C-His&Avi

Synonyms

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

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by Tris-

Bis PAGE;≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

Endotoxin

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

Formulation

Reconstitution

Centrifuge the tube 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

Recombinant Biotinylated Human CD3E/CD3 epsilon 1-27 peptide Protein is expressed from Expi293 with hFc tag and Avi Tag at the C-terminal. [It contains Asp23-Thr48.

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.

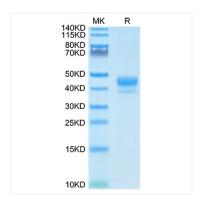
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

. Avoid repeated freeze/thaw cycles.

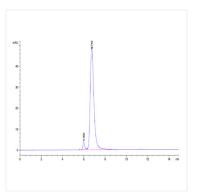
Operational Notes

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

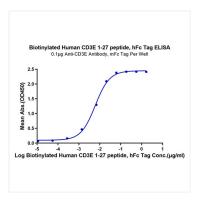
Validation Data



Biotinylated Recombinant Human CD3 epsilon/CD3E Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Anti-CD3 Antibody, mFc Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human CD3E 1-27 peptide, hFc Tag with the EC $_{50}$ of 5.9ng/ml determined by ELISA.