

Recombinant Cynomolgus CD3 epsilon/CD3E Protein

Catalog No.: RP02214 Recombinant

Sequence Information

Species Gene ID Swiss Prot Cynomolgus 102133065 Q95LI5-1

Tags

C-His

Synonyms

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

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by Tris-Bis PAGE.≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

11.7 kDa 14-16 kDa

Endotoxin

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

Formulation

Lyophilized from 0.22um filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

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 Cynomolgus CD3 epsilon/CD3E Protein is produced by mammalian expression system. The target protein is expressed with sequence (Gln22-Asp117) of cynomolgus Cynomolgus CD3 Epsilon (Accession #) fused with a His tag at the Cterminus.

Bio-Activity

Immobilized Cyno CD3 epsilon at 1 μ g/mL(100 μ L/Well).Dose response curve for Anti-CD3 Ab. with the EC₅₀ of 0.2 μ g/mL determined by ELISA.

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.

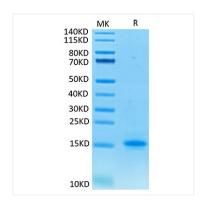
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

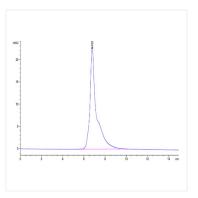
Operational Notes

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

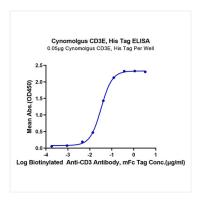
Validation Data



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



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



Immobilized Cynomolgus CD3E, His Tag at $0.5\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, mFc Tag with the EC_{s0} of 32.7ng/ml determined by ELISA.