

Synonyms

FLJ18683, T3E, TCRE, CD3E, CD3-epsilon

Source

PE-Labeled Human CD3 epsilon Protein, His Tag (CDE-HP2H3) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 126 (Accession # [P07766-1](#)). It is the PE labeled form of Human CD3 epsilon, His Tag (Cat. No. CDE-H5223).

Predicted N-terminus: Asp 23

Molecular Characterization

CD3 epsilon(Asp 23 - Asp 126) P07766-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 16.9 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

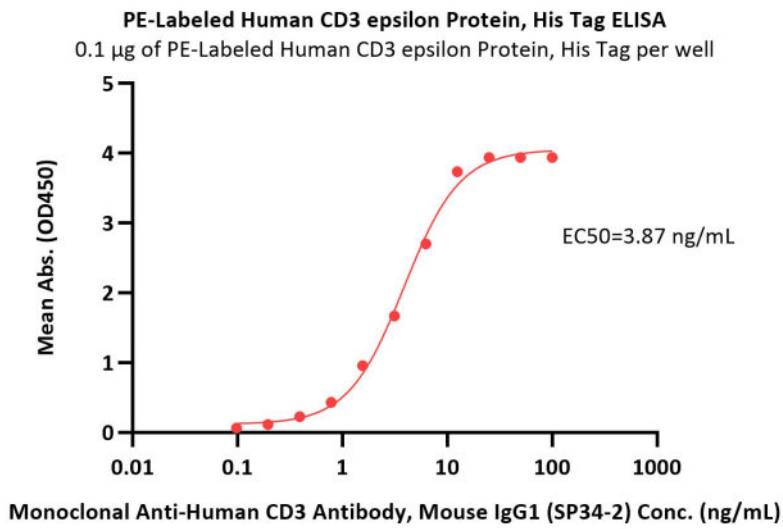
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

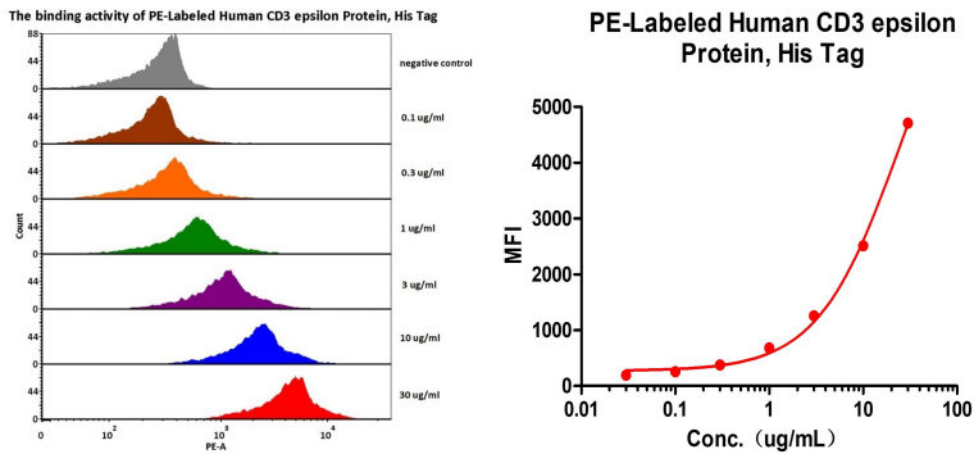
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

Bioactivity-ELISA



Immobilized PE-Labeled Human CD3 epsilon Protein, His Tag (Cat. No. CDE-HP2H3) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG1 (SP34-2) (Cat. No. CDE-M531) with a linear range of 0.1-6 ng/mL (QC tested).

Bioactivity-Flow Cytometry



1e5 of Mouse Anti-CD3 antibody coupled beads (5.5µm) were stained with different concentration of PE-Labeled Human CD3 epsilon Protein, His Tag (Cat. No. CDE-HP2H3) and negative control protein respectively, PE signal was used to evaluate the binding activity (QC tested).

Background

CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency.



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