



Synonym

FLJ18683,T3E,TCRE,CD3E,CD3-epsilon

Source

HRP-Human CD3 epsilon, His Tag(CDE-HR2H4) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 126 (Accession # [P07766-1](#)).

Predicted N-terminus: Asp 23

Molecular Characterization

CD3E(Asp 23 - Asp 126)
P07766-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 12.6 kDa.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

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.

Storage

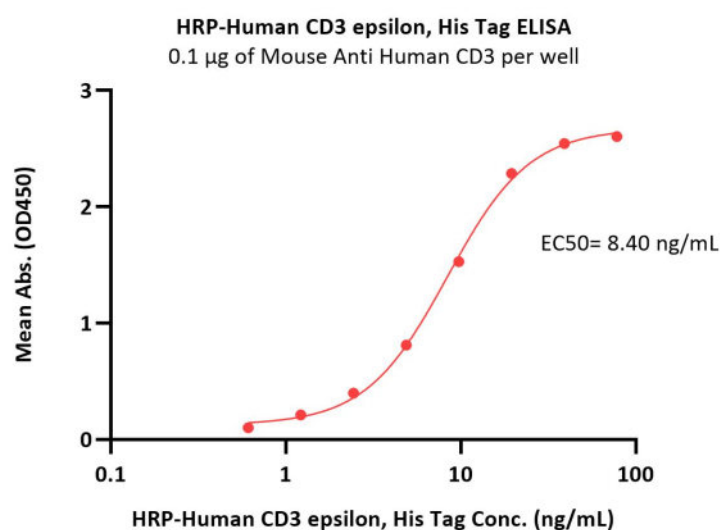
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

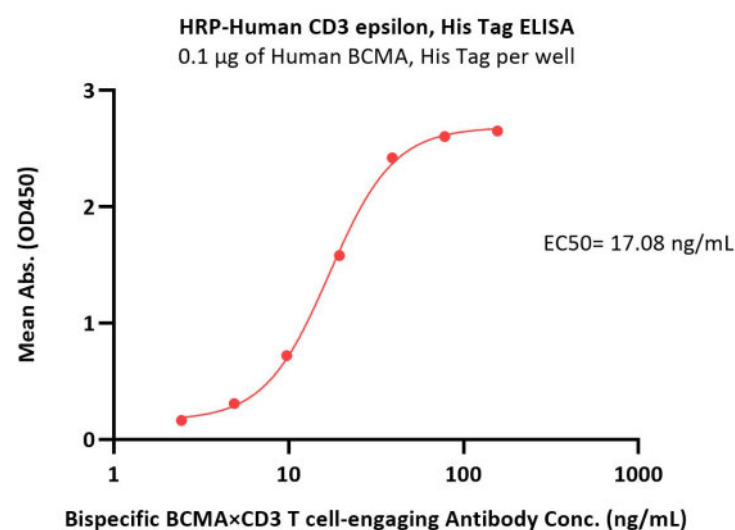
This product is stable after storage at:

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

Bioactivity-ELISA



Immobilized Mouse Anti Human CD3(SP-34) at 1 µg/mL (100 µL/well) can bind HRP-Human CD3 epsilon, His Tag (Cat. No. CDE-HR2H4) with a linear range of 1-20 ng/mL (QC tested).

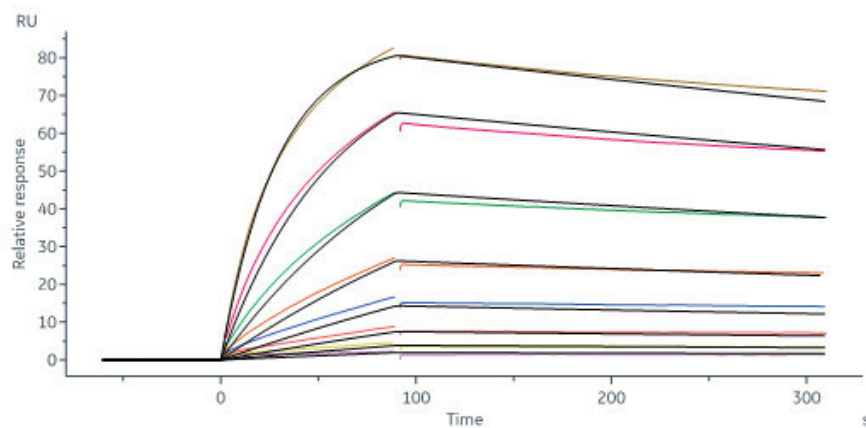


Immobilized Human BCMA, His Tag (Cat. No. BCA-H522y) at 1 µg/mL (100 µL/well) can bind Bispecific BCMA×CD3 T cell-engaging Antibody with a linear range of 5-39 ng/mL when detected by HRP-Human CD3 epsilon, His Tag (Cat. No. CDE-HR2H4) (Routinely tested).

Bioactivity-SPR

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Bisppecific T-cell Engager captured on Protein A Chip can bind HRP-Human CD3 epsilon, His Tag (Cat. No. CDE-HR2H4) with an affinity constant of 4.45 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

CD3ε 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-γ, CD3-δ and CD3-ζ, and the T-cell receptor α/β and γ/δ 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. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.

Clinical and Translational Updates

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