



Synonym

CD3E & CD3D, CD3 delta & CD3 epsilon

Source

HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (CDD-HR2W3) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 126 (CD3E) & Phe 22 - Ala 105 (CD3D) (Accession # [P07766-1](#) (CD3E) & [P04234-1](#) (CD3D)).

Predicted N-terminus: Asp 23 (CD3E) & Phe 22 (CD3D)

Molecular Characterization

CD3E (Asp 23 - Asp 126) P07766-1	Poly-his
CD3D (Phe 22 - Ala 105) P04234-1	

HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free is produced by co-expression of CD3E and CD3D, has a calculated MW of 16.6 kDa (CD3E) and 13.4 kDa (CD3D). Subunit CD3E is fused with a polyhistidine tag at the C-terminus and subunit CD3D contains no tag.

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.

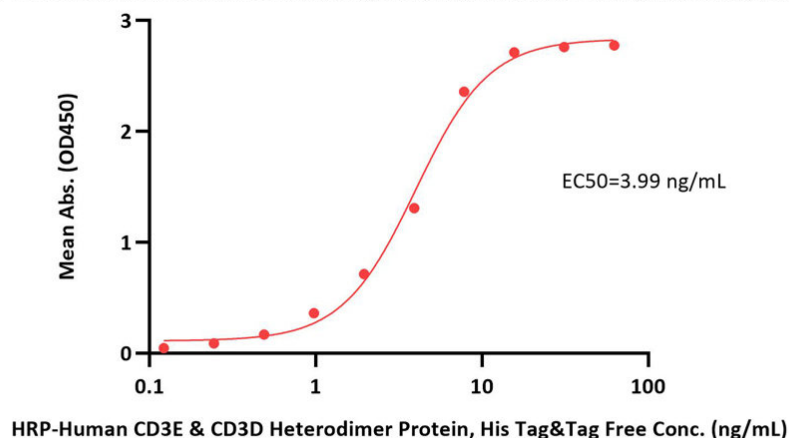
Please protect from light and avoid repeated freeze-thaw cycles.

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.

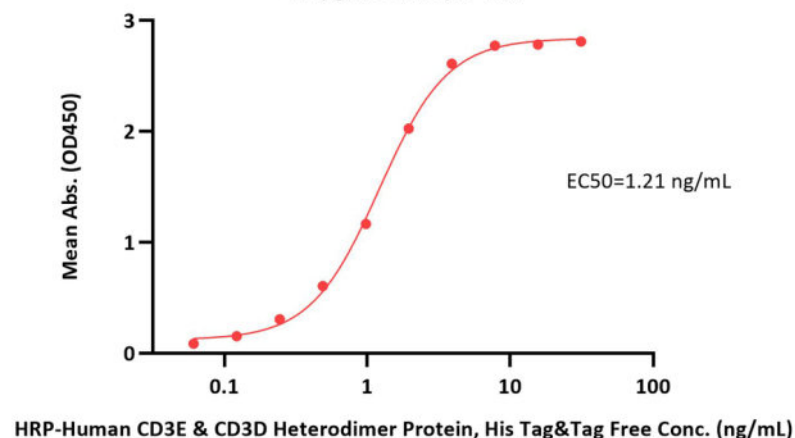
Bioactivity-ELISA

HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free ELISA
0.1 µg of Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade per well



Immobilized Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3), premium grade (Cat. No. CDE-M120a) at 1 µg/mL (100 µL/well) can bind HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-HR2W3) with a linear range of 0.1-8 ng/mL (QC tested).

HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free ELISA
0.1 µg of UCHT1 per well



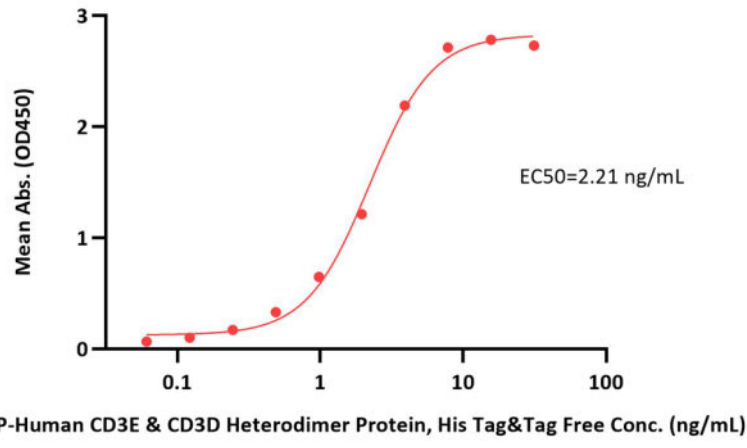
Immobilized UCHT1 at 1 µg/mL (100 µL/well) can bind HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-HR2W3) with a linear range of 0.1-2 ng/mL (Routinely tested).

Discounts, Gifts,
and more!

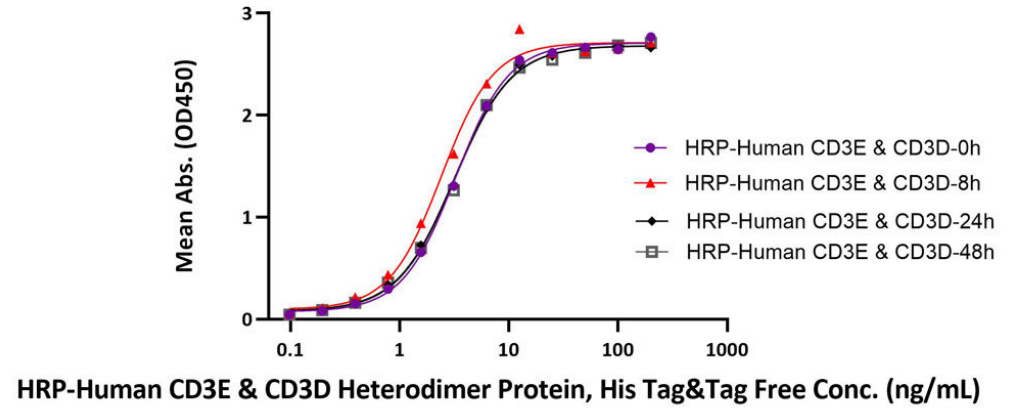




HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free ELISA
0.1 µg of Mouse Anti-Human CD3 (SP34-2) per well



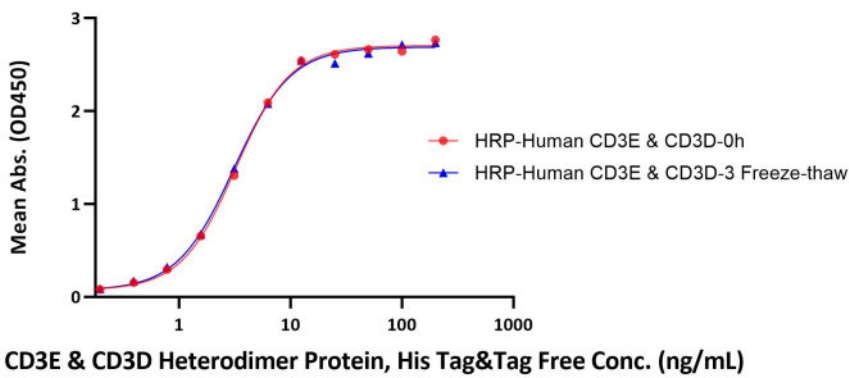
HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free ELISA



Immobilized Mouse Anti-Human CD3 (SP34-2) at 1 µg/mL (100 µL/well) can bind HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-HR2W3) with a linear range of 0.1-4 ng/mL (Routinely tested).

HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-HR2W3) is stable at 37°C for 48 hours, equivalent to store at -70°C for 55 months without performance reduction (Routinely tested).

HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free ELISA



HRP-Human CD3E & CD3D Heterodimer Protein, His Tag&Tag Free (Cat. No. CDD-HR2W3) is stable after freezing and thawing three times (Routinely tested).

Background

T-cell surface glycoprotein CD3 delta & CD3 epsilon chain, also known as CD3D & CD3E or CD3D&CD3E respectively, are single-pass type I membrane proteins. CD3D, together with CD3- epsilon(CD3E) , CD3-gamma and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

Clinical and Translational Updates

Discounts, Gifts, and more!

