



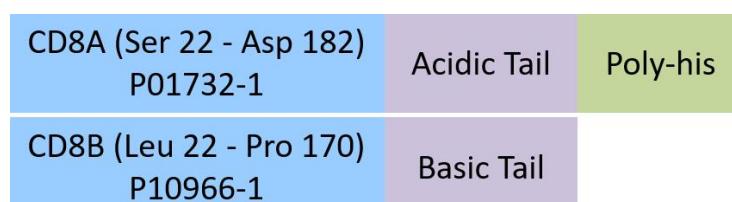
Synonym

CD8 alpha & beta,CD8A & CD8B

Source

FITC-Labeled Human CD8A&CD8B Heterodimer Protein, His Tag&Tag Free (CDA-HF2W4) is expressed from human 293 cells (HEK293). It contains AA Ser 22 - Asp 182 (CD8A) & Leu 22 - Pro 170 (CD8B) (Accession # [P01732-1](#) (CD8A) & [P10966-1](#) (CD8B)). It is the FITC labeled form of Human CD8A&CD8B Heterodimer Protein, His Tag&Tag Free (CDA-H52W5). Predicted N-terminus: Ser 22 & Leu 22

Molecular Characterization



The protein has a calculated MW of 19.5 kDa & 22.1 kDa. The protein migrates as 30-32 kDa and 32-34 kDa under reducing (R) condition, and 30-33 kDa and 60-65 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Protein Ratio

The FITC to protein molar ratio is 2-3.

Purity

>90% as determined by SDS-PAGE.

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:

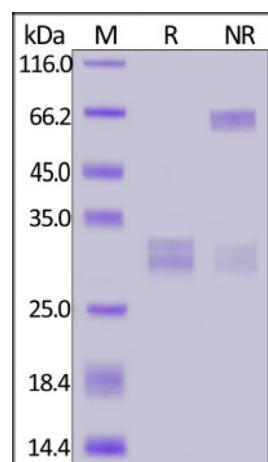
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Discounts, Gifts,
and more!

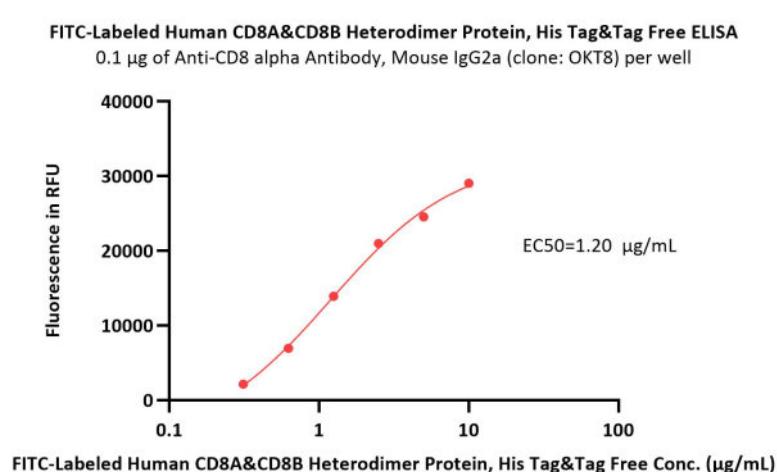


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FITC-Labeled Human CD8A&CD8B Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Anti-CD8 alpha Antibody, Mouse IgG2a (clone: OKT8) at 1 µg/mL (100 µL/well) can bind FITC-Labeled Human CD8A&CD8B Heterodimer Protein, His Tag&Tag Free (Cat. No. CDA-HF2W4) with a linear range of 0.625-2.5 µg/mL (QC tested).

Background

Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. CD8A forms disulfide-linked heterodimers with CD8B at the cell surface. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells. Additionally, CD8B plays a critical role in thymic selection of CD8+ T-cells. A palmitoylation site in the cytoplasmic tail of CD8B chain contributes to partitioning of CD8 into the plasma membrane lipid rafts where signaling proteins are enriched.

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