

PE-Labeled Human CD1d&B2M Tetramer Protein (Peptide free)

Catalog # CDM-HP2H5



BIOSYSTEMS
Acro

Source

PE-Labeled Human CD1d&B2M Tetramer Protein(CDM-HP2H5) is expressed from human 293 cells (HEK293). It contains AA Glu 20 - Ser 301 (CD1d) & Ile 21 - Met 119 (B2M) (Accession # [P15813](#) (CD1d) & [P61769](#) (B2M)).

Predicted N-terminus: Glu 20 & Ile 21

Molecular Characterization

PE-Labeled Human CD1d&B2M Tetramer Protein is assembled by biotinylated monomer (CDM-H82E9) and PE-labeled streptavidin.

Biotinylated Human CD1d&B2M Monomer Protein is produced by co-expression of CD1d and B2M. This Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 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

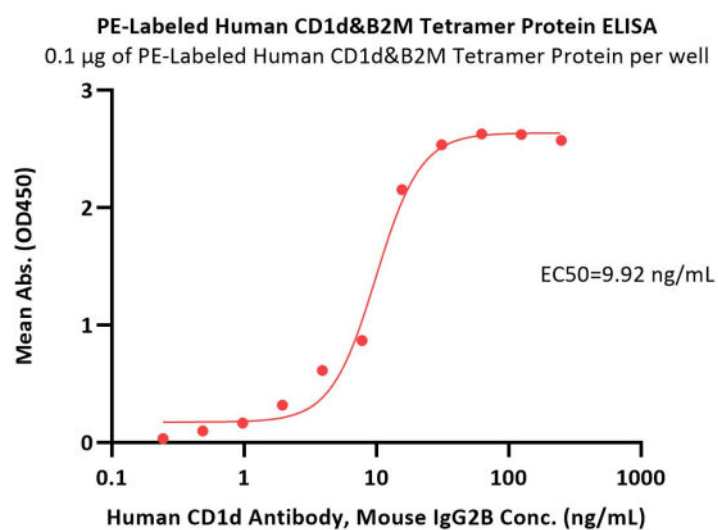
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

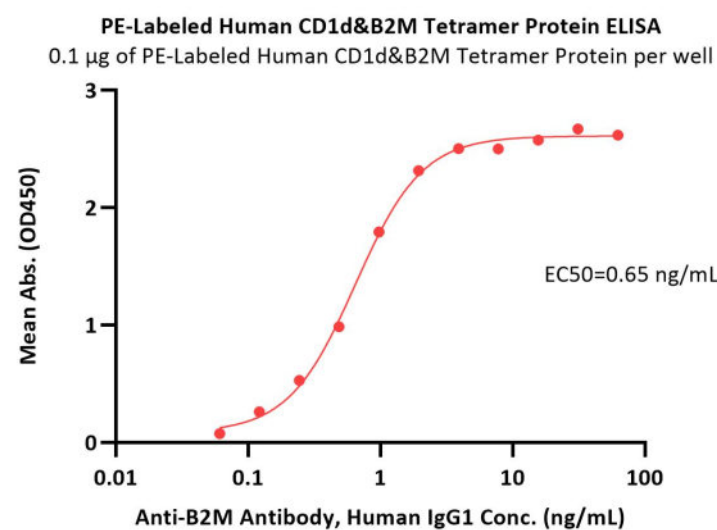
This product is stable after storage at:

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

Bioactivity-ELISA



Immobilized PE-Labeled Human CD1d&B2M Tetramer Protein (Cat. No. CDM-HP2H5) at 1 µg/mL (100 µL/well) can bind Human CD1d Antibody, Mouse IgG2B with a linear range of 0.2-16 ng/mL (QC tested).



Immobilized PE-Labeled Human CD1d&B2M Tetramer Protein (Cat. No. CDM-HP2H5) at 1 µg/mL (100 µL/well) can bind Anti-B2M Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (Routinely tested).

Background

CD1d is a membrane protein non-covalently bonded to β2-microglobulin (β2m) and shows high homology between human and mice. CD1d can present α-galactosylceramide (α-GalCer), a glycolipid extracted and isolated from the marine sponge, and this complex can activate human and murine CD1d restricted NKT

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Catalog # CDM-HP2H5



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