

Recombinant Human CD3D & CD3E Heterodimer Protein

Catalog Number: PKSH030479

Note: Centrifuge before opening to ensure complete recovery of vial contents.

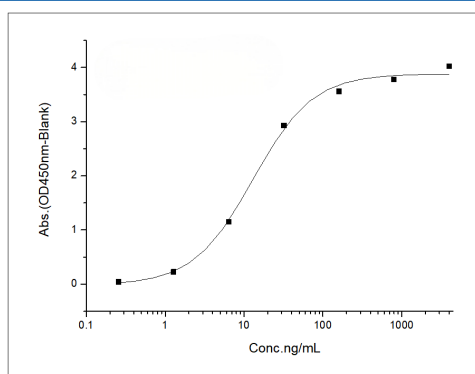
Description

Species	Human
Source	HEK293 Cells-derived Human CD3D & CD3E Heterodimer protein Met 1-Ala105& Met 1-Asp126, with an C-terminal Flag & hFc
Calculated MW	37.5&40 kDa
Observed MW	45-50 kDa
Accession	P04234-1&P07766-1
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human CD3D & CD3E Heterodimer Protein at 10 µg/ml (100 µl/well) can bind OKT3-mIgG2a. The EC ₅₀ of OKT3-mIgG2a is 0.07-0.17 µg/ml.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Immobilized SP34 Antibody at 2 µg/mL (100 µL/well) can bind Recombinant Human CD3D & CD3E Heterodimer Protein (ECD) (Cat: PKSH030479), the EC₅₀ is 8-25 ng/mL.

Background

T-cell surface glycoprotein CD3D & CD3E, also known as CD3 delta & CD3 epsilon chain, 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.

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