

Human CD3D & CD3E Heterodimer Protein



Sino Biological
Biological Solution Specialist

Catalog Number: CT038-H2508H

General Information

Gene Name Synonym:

CD3-DELTA; IMD19; T3D

Protein Construction:

A DNA sequence encoding the extracellular domain (Met1-Ala105) of human CD3D (P04234) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Asp126) of human CD3E (P07766) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3D/CD3E heterodimer was purified.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized human CD3D & CD3E Heterodimer Protein (Cat:CT038-H2508H) at 10 µg/ml (100 µl/well) can bind OKT3-mIgG2a. The EC₅₀ of OKT3-mIgG2a is 7.0-18.0 ng/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Phe 22 & Asp 23

Molecular Mass:

The recombinant heterodimer of human CD3D&CD3E comprises 271 (126+145) amino acids and has a calculated molecular mass of 30.05 (14.4+16.65)KDa. As a result of glycosylation, the apparent molecular mass of human CD3D&CD3E heterodimer is approximately 20, 22 and 26 KDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Usage Guide

Storage:

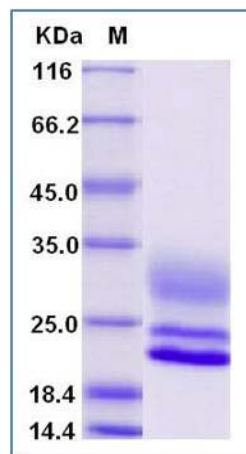
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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