

Human CD3E & CD3G Heterodimer Protein



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: CT041-H0305H

General Information

Gene Name Synonym:

CD3E & CD3G Heterodimer; IMD18; T3E; TCRE; AI504783; CD3; CD3epsilon; T3e

Protein Construction:

A DNA sequence encoding the extracellular domain (Met1-Asp126) of human CD3E (NP_000724.1) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Ser116) of human CD3G (NP_000064.1) was fused the Fc region of mouse IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3E/CD3G heterodimer was purified.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to bind OKT3-mIgG2a in a functional ELISA.

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: Asp 23 & Gln 23

Molecular Mass:

The recombinant heterodimer of human CD3E/CD3G comprises 683 (355+328) amino acids and has a calculated molecular mass of 77.2 (40.1+37.1) KDa. As a result of glycosylation, the apparent molecular mass of human CD3E/CD3G heterodimer is approximately 42-47 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:

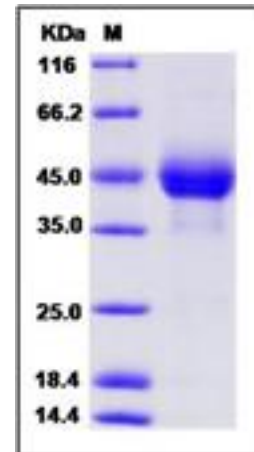
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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