

Recombinant Mouse Cd3e&Cd3d, His&Flag tag "

Cat. No. Cd3E&D-307M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

A DNA sequence encoding the extracellular domain (Met 1- Ala 105) of mouse CD3D (P04235) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met 1- Asp 108) of mouse CD3E (P22646) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the mouse CD3D/CD3E heterodimer was purified.

Species Mouse

Source Human Cells

ProteinLength 1-105 a.a.

Description

T-cell surface glycoprotein CD3 delta/epsilon chain, also known as CD3D and CD3E respectively, are single-pass type I membrane proteins. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. 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. This complex is critical for T-cell development and function, and represents one of the most complex transmembrane receptors. The T cell receptor-CD3 complex is unique in having ten cytoplasmic immunoreceptor tyrosine-based activation motifs (ITAMs). The immunofluorescence defined that CD3 epsilon(CD3E0) was strongly stained

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bound to either CD 3 gamma or CD 3 delta. The recognition by this panel of anti-CD3 antibodies of CD3-gamma/ epsilon and CD3-delta/ epsilon complexes and not of CD3-epsilon alone was assessed by immunoprecipitation.

Molecular Mass

The recombinant heterodimer of mouse CD3D/CD3E comprises 254 (126+128) amino acids and has a calculated molecular mass of 29.2 (14.3+14.9) KDa. As a result of glycosylation, the apparent molecular mass of mouse CD3D/CD3E heterodimer is approximately 20 and 22 KDa in SDS-PAGE under reducing conditions.

Predicted N terminal

Phe 22& Asp 22

Purity

(42.3 + 45.3) % as determined by SDS-PAGE

Endotoxin

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

Formulation

Lyophilized from sterile PBS, pH 7.4.

Storage

Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products.


GENE INFORMATION

Synonyms

Cd3e; CD3 antigen, epsilon polypeptide; CD3; T3e; AI504783; CD3epsilon; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3E; T3E; TCRE; Cd3d; CD3 antigen, delta polypeptide; T3d; CD3D; CD3-DELTA; T3D; T-cell surface glycoprotein CD3 delta chain; T-cell receptor T3 delta chain

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