

Recombinant Mouse CD3E&CD3D Protein

Catalog No.: RP02215 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12501&1250 0	P22646 & P04235

Tags

C-hFc

Synonyms

CD3; CD3e; CD3E; CD3d; T3D; CD3D;
CD3E&CD3D; CD3 delta&CD3 epsilon

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Bis-Tris PAGE. > 95% as determined by HPLC.

Calculated MW	Observed MW
36.1 kDa (CD3E), 35.2 kDa	50-65 kDa (CD3E), 40-50 kDa (CD3D)

Endotoxin

< 0.1 EU per µg by the LAL method.

Formulation

Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

 | 400-999-6126

Background

T-cell surface glycoprotein CD3 epsilon & CD3 delta chain, also known as CD3E & CD3D, are single-pass type I membrane proteins. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain.

Basic Information

Description

Recombinant Mouse CD3E&CD3D Heterodimer Protein is produced by mammalian expression system. The target protein is expressed with sequence (Asp23-Asp108(P22646)&Phe22-Ala105(P04235)) of mouse CD3E&CD3D (Accession #) fused with a hFc tag at the C-terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

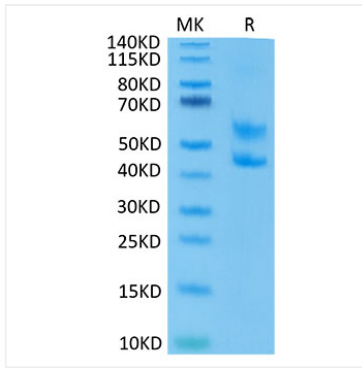
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

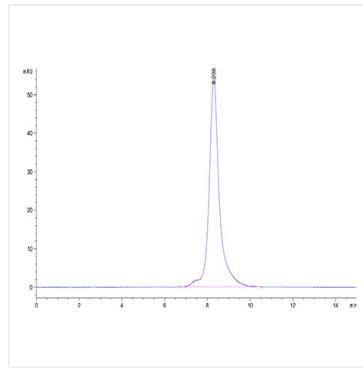
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Validation Data



Mouse CD3E&CD3D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Mouse CD3E&CD3D is greater than 95% as determined by SEC-HPLC.