

## CD3 epsilon/CD3e Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	T3E;CD3-ε;FLJ18683;CD3e;IMD18;CD3-epsilon;TCRE;CD3E/CD3 ε
Protein Construction:	Gln22-Asp117
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q95LI5
Molecular Weight:	11.7 kDa (predicted). Due to glycosylation, the protein migrates to 14-16 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Cynomolgus CD3E, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, hFc Tag with the EC50 of 45.0ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CD3E, is a single-pass type I membrane protein. CD3 (cluster of differentiation 3) T cell co-receptor helps to activate both the cytotoxic T cell (CD8 naive T cells) and also T helper cells (CD4 naive T cells). It consists of a protein complex and is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains.

Reference

Kroesen B J, et al. Approaches to lung cancer treatment using the CD3ExGP-2-directed Bispecific Monoclonal Antibody BIS-1[J]. Cancer Immunology Immunotherapy, 1997, 45(3-4):203-206.

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