

CD3 epsilon/CD3e Protein, Cynomolgus, Recombinant (aa 22-117, hFc)

General Information

Synonyms:	CD3 epsilon;T-cell antigen receptor complex, epsilon subunit of T3;CD3e antigen, ϵ polypeptide (TiT3 complex);T-cell surface antigen T3/Leu-4 epsilon chain;CD3e antigen, epsilon polypeptide (TiT3 complex);T-cell antigen receptor complex, ϵ subunit of T3;CD3e antigen;FLJ18683;CD3e;CD3e molecule, epsilon (CD3-TCR complex);CD3 ϵ ;CD3e molecule, ϵ (CD3-TCR complex);T3E;CD3-epsilon;T-cell surface antigen T3/Leu-4 ϵ chain;CD3- ϵ
Protein Construction:	Gln22-Asp117
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q95LI5
Molecular Weight:	38-55 KDa (reducing condition)
AA Sequence:	Gln22-Asp117

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 50 mM Tris-HCl, 100 mM Glycine, pH 7.5.

Preparation and Storage

Reconstitution:
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/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:

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

T-cell surface glycoprotein CD3 epsilon chain, also known as CD3E, is a single-pass type I membrane protein. CD3E

contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. The CD3 epsilon subunit of the T cell receptor (TCR) complex contains two defined signaling domains, a proline-rich sequence and an immune tyrosine activation motifs (ITAMs), and this complex undergoes a conformational change upon ligand binding that is thought to be important for the activation of T cells. 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. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. Homozygous mutations in CD3D and CD3E genes lead to a complete block in T-cell development and thus to an early-onset severe combined immunodeficiency phenotype.

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