



Recombinant Protein Technical Manual

Recombinant Human CD3 ϵ /CD3E Protein (His Tag)(Active)
RPES3250

Product Data:

Product SKU: RPES3250

Size: 10 μ g

Species: Human

Expression host: Human Cells

Uniprot: NP_000724.1

Protein Information:

Molecular Mass: 12.8 kDa

AP Molecular Mass: 18 kDa

Tag: C-6His

Bio-activity: Immobilized Human CD3E-His at 10 μ g/ml(100 μ l/well) can bind Human Anti-CD3. The ED50 of Human CD3E-His is 3.9 ng/ml.

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μ g as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: T-Cell Surface Glycoprotein CD3 Epsilon Chain; T-Cell Surface Antigen T3/Leu-4 Epsilon Chain; CD3e; CD3E; T3E;CD3 epsilon;IMD18

Immunogen Information:

Sequence: Asp23-Asp126

Background:

T-Cell Surface Glycoprotein CD3 ϵ Chain (CD3 ϵ) is a single-pass type I membrane protein. CD3 ϵ contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3 ϵ is a polypeptide encoded by the CD3E gene on chromosome 11 in humans. The T cell receptor-CD3 complex (TCR/CD3 complex) is involved in T-cell development and 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). TCR/CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.