

**Recombinant Human T-Cell Surface Glycoprotein CD3 epsilon Chain Protein**

**Cat.NO.: TP05451**

3th Edition

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

**Description:**T-Cell Surface Glycoprotein CD3 ? Chain (CD3?) is a single-pass type I membrane protein. CD3? contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3? 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.

**Form:**PBS

**Molecular Weight:**12.8 kDa

**Sequences:**Asp23-Asp126

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.