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32-9160: Recombinant Human CD3E (C-His)

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

Description

Source : Human 293 Cells;
CD3 epsilon (T-Cell Surface Glycoprotein CD3 Epsilon) is a type I transmembrane protein that belongs to the immunoglobulin superfamily. There are four CD3 proteins: CD3 delta, CD3 epsilon, CD3 gamma, and CD3 zeta. All CD3 proteins contain ITAM (Immunoreceptor Tyrosine-based Activation Motifs) in the cytoplasmic tail, which becomes phosphorylated by Src family protein tyrosine kinases LCK and FYN upon TCR engagement. CD3 proteins form heterodimers of CD3 delta/CD3 epsilon and CD3 gamma /CD3 epsilon, which bind to TCR and form trimeric TCR alpha /CD3 epsilon /CD3 gamma and TCR beta /CD3 gamma /CD3 epsilon. The resulting heterohexamer further associates with CD3 zeta homodimer and forms TCR/CD3 signaling complex. This complex is involved in coupling antigen recognition to several intracellular signal-transduction pathways. CD3 epsilon plays a critical role in adaptive immune response. Defects in CD3 epsilon lead to SCID (severe combined immunodeficiency).

Product Info

Amount : 500 µg / 50 µg

Content : Lyophilized from a 0.2 um filtered solution of PBS, pH7.4

Amino Acid : Recombinant Human T-Cell Surface Glycoprotein CD3 epsilon Chain is produced by our Mammalian expression system and the target gene encoding Asp23-Asp126 is expressed with a 6His tag at the C-terminus.