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## Product Datasheet

### **Biotinylated Human CD3E (C-Fc-Avi) EBT-EPT267**

Article Name	Biotinylated Human CD3E (C-Fc-Avi)
Biozol Catalog Number	EBT-EPT267
Supplier Catalog Number	EPT267
Alternative Catalog Number	EBT-EPT267-20
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Biotinylated 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 Fc, Avi tag at the C-terminus....
Molecular Weight	Molecular weight: 40.5 KDa. Apparent molecular weight: 45-60 KDa, reducing conditions
UniProt	<a href="#">P07766</a>
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. Biological activity: Loaded Anti-Human CD3E mAb-mFc(CatNC079) on AMC Biosensor, can bind Human CD3E-Fc-6His&C-Fc-Flag(CatCY33) with an affinity constant of 0.6 nM as determined in BLI assay. Background: T-Cell Surface Glycoprotein CD3 epsilon Chain (CD3epsilon) is a single-pass type I membrane protein. CD3epsilon contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3epsilon 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