

CD3E, human recombinant protein
T-cell surface glycoprotein CD3 epsilon chain, T3E, TCRE
Catalog # PBV10966r**Specification****CD3E, human recombinant protein - Product info**

Primary Accession	P07766
Concentration	1
Calculated MW	14.1 kDa (127 aa, 23-126 aa + His Tag), confirmed by MALDI-TOF. KDa

CD3E, human recombinant protein - Additional Info

Gene ID	916
Gene Symbol	CD3E
Other Names	
T-cell surface glycoprotein CD3 epsilon chain, T3E, TCRE	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGSDGNEEMG GITQTPYKVS ISGTTVILTC PQYPGSEILW QHNDKNIGGD EDDKNIGSDE DHLSLKEFSE LEQSGYYVCY PRGSKPEDAN FYLYLRARVC ENCMEMD

Target/Specificity
CD3E**Format**
Liquid**Storage**
-80°C; 1 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, and 10% glycerol.**CD3E, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

CD3E, human recombinant protein - Images

CD3E, human recombinant protein - Background

CD3E is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women. Recombinant human CD3E protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

CD3E, human recombinant protein - References

Gold D.P., et al. Nature 321:431-434(1986).
Terhorst C., et al. Submitted (JAN-1987) to the EMBL/GenBank/DDBJ databases.
Clevers H.C., et al. Proc. Natl. Acad. Sci. U.S.A. 85:8156-8160(1988).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.