

AR50677PU-S

Human CD3 (23-126, His-tag) - Purified

Alternate names:

T-cell surface antigen T3/Leu-4, T-cell surface glycoprotein CD3, T3/Leu-4

Quantity:

50 µg

Concentration:

1 mg/ml (determined by Bradford assay)

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.

Uniprot ID:

[P07766](#)

NCBI:

[NP_000724](#)

GeneID:

[916](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 10% glycerol

Description:

Recombinant human CD3E protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSDGNEEMG GITQTPYKVS ISGTTVILTC PQYPGSEILW
QHNDKNIGGD EDDKNIGSDE DHLSLKEFSE LEQSGYYVCY PRGSKPEDAN FYLYLRARVC
ENCMEMD

Molecular weight: 14.1 kDa (127aa), confirmed by MALDI-TOF

Storage:

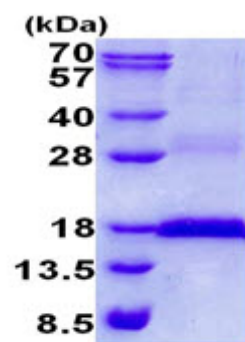
Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Lu,X., et al. (2011) Hematology 16 (3), 185-189 Li,Y., et al. (2011) Hematology 16 (3), 143-150

Pictures:



15% SDS-PAGE (3ug)