

## Recombinant Human CD3E

Cat. No. CD3E-26926TH Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant full length mature Human CD3 epsilon with N terminal proprietary tag; predicted MWt 46.46 kDa inclusive of tag  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Wheat Germ  |
| <b>ProteinLength</b>    | 185 amino acids   |
| <b>Description</b>      | <p>The protein encoded by this gene 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 and 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.</p> |
| <b>Molecular Weight</b> | 46.460kDa inclusive of tags   |
| <b>Form</b>             | Liquid  |
| <b>Purity</b>           | Proprietary Purification  |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                 |  |
|---------------------------------|--|
| <b>Storage buffer</b>           | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl  |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.  |
| <b>Sequences of amino acids</b> | DGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQRN DKNIGGEDDDKNIGSDE<br>DHLSLKEFSELEQSGYYVCYPRG SKPEDANFYLYLRARVCENCMEMDVMSVATIVI<br>VDICITG GLLLLVYYWSKNRKAKAKPVTRGAGAGGRQRGQNKERPPP VPNPDYEP<br>IRKGQRDLYSGLNQRRRI |
| <b>Sequence Similarities</b>    | Contains 1 Ig-like (immunoglobulin-like) domain. Contains 1 ITAM domain.   |

## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | CD3E CD3e molecule, epsilon (CD3-TCR complex) [ Homo sapiens ]   |
| <b>Official Symbol</b>     | CD3E   |
| <b>Synonyms</b>            | CD3E; CD3e molecule, epsilon (CD3-TCR complex); CD3e antigen, epsilon polypeptide (TiT3 complex); T-cell surface glycoprotein CD3 epsilon chain; |
| <b>Gene ID</b>             | 916  |
| <b>mRNA Refseq</b>         | NM_000733  |
| <b>Protein Refseq</b>      | NP_000724  |
| <b>Uniprot ID</b>          | P07766   |
| <b>Chromosome Location</b> | 11q23  |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Pathway**

Adaptive Immune System, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem;

**Function**

SH3 domain binding; T cell receptor binding; protein heterodimerization activity; protein kinase binding; receptor activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA