

Product datasheet for **TP700034**

CD3E (NM_000733) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human CD3e molecule, epsilon (CD3-TCR complex) (CD3E), expressed in human cells
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC208276, encoding the extracellular domain (Asp23-Asp126) of human CD3E
Tag:	C-DDK/His
Predicted MW:	14 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000724
Locus ID:	916
UniProt ID:	P07766
RefSeq Size:	1534
Cytogenetics:	11q23.3
RefSeq ORF:	621
Synonyms:	IMD18; T3E; TCRE


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Summary:

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. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

Product images:
