

Active Recombinant Mouse Cd3e Protein, Fc Tagged

Cat. No. Cd3e-11233M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CD3E, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Asp 23-Asp 108 (Accession # P22646). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Asp 23
Species	Mouse
Source	HEK293
ProteinLength	23-108 aa
Description	CD3e molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-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. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl,

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	pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Mouse CD3E, Fc Tag at 5 µg/mL (100 µL/well) can bind CD3e Monoclonal Antibody (145-2C11), Biotin with a linear range of 5-156 ng/mL.
Molecular Mass	The protein has a calculated MW of 36 kDa. The protein migrates as 40-43 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cd3e CD3 antigen, epsilon polypeptide [Mus musculus (house mouse)]
Official Symbol	Cd3e
Synonyms	CD3E; CD3 antigen, epsilon polypeptide; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3; T3e; A1504783; CD3epsilon;

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Gene ID	12501
mRNA Refseq	NM_007648
Protein Refseq	NP_031674
UniProt ID	P22646

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