Datasheet for ABIN7597450

# CD3 epsilon Protein (CD3E) (AA 23-126) (His tag)

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## Overview

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| Quantity: | 10 µg |
| Target: | CD3 epsilon (CD3E) |
| Protein Characteristics: | AA 23-126 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CD3 epsilon protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant human CD3E Protein with C-terminal 10xHis tag |
| Sequence: | CD3E(Asp23-Asp126) 10xHis tag |
| Purity: | The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining. |

## Target Details

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| Target: | CD3 epsilon (CD3E) |
| Alternative Name: | CD3E (CD3E Products) |
| Background: | T3E, TCRE, IMD18, CD3epsilon<br>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 |

## Target Details

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| | 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] |
| Molecular Weight: | predicted molecular mass of 13.1 kDa after removal of the signal peptide. |
| UniProt: | P07766 |
| Pathways: | TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway |

## Application Details

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| Application Notes: | Extracellular Domain Proteins (ECD) can be used as:<br>• Immunogens for antibody drug development<br>• Reagents used for CAR-T positive cell monitoring<br>• Reagents for antibody screening and functional testing<br>• Reagents for antibody affinity measurement |
| Comment: | The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| Expiry Date: | 12 months |