Datasheet for ABIN1096311

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

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Overview

Quantity:	50 µg
Target:	CD3 epsilon (CD3E)
Protein Characteristics:	AA 23-126
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD3 epsilon protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD3 ε/CD3E (C-6His)
Sequence:	DGNEEMGGIT QTPYKVSISG TTVILTCPQY PGSEILWQHN DKNIGGDEDD KNIGSDEDHL SLKEFSELEQ SGYYVCYPRG SKPEDANFYL YLRARVCENC MEMDVDHHHH HH
Characteristics:	Recombinant Human T-Cell Surface Glycoprotein CD3 epsilon Chain/CD3epsilon is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Asp23-Asp126) of Human CD3epsilon fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	cd3-epsilon (CD3E Products)
Sub Type:	Fusionprotein
Background:	T-Cell Surface Glycoprotein CD3 epsilon Chain (CD3epsilon) is a single-pass type I membrane protein. CD3epsilon contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3epsilon is a polypeptide encoded by the CD3E gene on chromosome 11 in humans. The T cell receptor-CD3 complex (TCR/CD3 complex) is involved in T-cell development and several intracellular signal-transduction pathways. This complex is critical for T-cell development and function, and represents one of the most complex transmembrane receptors. The T cell receptor-CD3 complex is unique in having ten cytoplasmic immunoreceptor tyrosine-based activation motifs (ITAMs). TCR/CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Alternative Names: T-Cell Surface Glycoprotein CD3 Epsilon Chain, T-Cell Surface Antigen T3/Leu-4 Epsilon Chain, CD3e, CD3E, T3E
Molecular Weight:	12.79 kDa
UniProt:	P07766
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days.

Handling

	Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months