

Recombinant Human CD3D protein, His & S-tagged

Cat. No. CD3D-1902H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD3D aa. (Gln18~Ile113 (Accession # P04234)) fused with N-terminal His & S tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln18~Ile113
Description	The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD 3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length nature of their transcripts has yet to be defined.
Form	Freeze-dried powder
Molecular Mass	16kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 5.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CD3D CD3d molecule [Homo sapiens (human)]
Official Symbol	CD3D
Synonyms	TXN2; thioredoxin, mitochondrial; MTRX; mt-Trx
Gene ID	915
mRNA Refseq	NM_000732.4

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Protein Refseq	NP_000723.1
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UniProt ID	P04234
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