

# Recombinant Full Length Human CD3D Protein, GST-tagged

Cat. No. CD3D-3173HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CD3D full-length ORF (NP_000723.1, 1 a.a. - 171 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	171 amino acids
<b>Description</b>	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. [provided by RefSeq, Feb 2009]
<b>Molecular Mass</b>	45.3 kDa
<b>AA Sequence</b>	MEHSTFLSGLVLATLLSQVSPFKIPIEELEDVRFVNCNTSITWVEGTVGTLTSDITRLD LGKRILDPRGIYRCNGTDIYKDKESTVQVHYRMCQSCVELDPATVAGIIVTDVIATLLL ALGVFCFAGHETGRLSGAADTQALLRNDQVYQPLRDRDDAQYSHLGGNWARNK

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CD3D CD3d molecule, delta (CD3-TCR complex) [ Homo sapiens ]
<b>Official Symbol</b>	CD3D
<b>Synonyms</b>	CD3D; CD3d molecule, delta (CD3-TCR complex); CD3d antigen, delta polypeptide (TiT3 complex), T3D; T-cell surface glycoprotein CD3 delta chain; CD3 delta; OKT3, delta chain; CD3 antigen, delta subunit; T-cell receptor T3 delta chain; CD3d antigen, delta polypeptide (TiT3 complex); T3D; CD3-DELTA;
<b>Gene ID</b>	915
<b>mRNA Refseq</b>	NM_000732
<b>Protein Refseq</b>	NP_000723
<b>MIM</b>	186790
<b>UniProt ID</b>	P04234

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