Recombinant Human Deoxynucleotidyltransferase, Terminal

Cat. No. DNTT-563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Deoxynucleotidyltransferase, Terminal encoding 1-200 amino acids expressed in*E.coli*. The TDT is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	1-200 a.a.
Description	Terminal Deoxynucleotidyl Transferase (TdT). TdT is a DNA polymerase located in the cell nucleus which catalyses the polymerization of deoxynucleotides at the 3-hydroxyl ends of oligo or polydeoxynucleotide initiators and functions without a template. TdT is considered to be a highly specific marker for the diagnosis and classification of acute lymphoblastic lymphoma/leukemias. The determination of TdT expression is most valuable when it is different to differentiate histologically between lymphoblastic lymphoma and Burkitt‘s lymphoma.
Physical Appearance	Sterile filtered liquid.
Formulation	TDT protein at 100μg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please avoid freeze-thaw cycles. Application And

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	Suggested Dilutions: 1. ELISA 2. Inhibition Assays 3. Western Blotting Characterization: On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 50 kDa.

GENE INFORMATION

Gene Name	DNTT deoxynucleotidyltransferase, terminal [Homo sapiens]
Synonyms	DNTT; deoxynucleotidyltransferase, terminal; DNA nucleotidylexotransferase; nucleosidetriphosphate:DNA deoxynucleotidylexotransferase; terminal addition enzyme; terminal deoxynucleotidyltransferase; terminal deoxyribonucleotidyltransferase; terminal transferase; TDT; EC 2.7.7.31
Gene ID	1791
mRNA Refseq	NM_001017520
Protein Refseq	NP_001017520
MIM	187410
UniProt ID	P04053
Chromosome Location	10q23-q24
Pathway	Hematopoietic cell lineage; Non-homologous end-joining
Function	DNA binding; DNA nucleotidylexotransferase activity; DNA-directed DNA polymerase activity; metal ion binding; transferase activity

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