

Recombinant Human DNTT Protein, His-tagged

Cat. No. DNTT-2569H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNTT(162 - 509 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	162 - 509 aa
Description	This gene is a member of the DNA polymerase type-X family and encodes a template-independent DNA polymerase that catalyzes the addition of deoxynucleotides to the 3'-hydroxyl terminus of oligonucleotide primers. In vivo, the encoded protein is expressed in a restricted population of normal and malignant pre-B and pre-T lymphocytes during early differentiation, where it generates antigen receptor diversity by synthesizing non-germ line elements (N-regions) at the junctions of rearranged Ig heavy chain and T cell receptor gene segments. Alternatively spliced transcript variants encoding different isoforms of this gene have been described.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
AA Sequence	NNCNQIFTDAFDILAENCEFRENE DSCVTFMRAASVLKSLPFTIISMKDTEGIPCLGSK VKGIIIEIIEDGESSEVKAVLNDERYQSFKLFTSVFGVGLKTSEKWFRMGFRTL SKVR SDKSLKFTRMQKAGFLYYEDLVSCVTRAEAEAVSVLVKEAVWAFLPDFAV TMTGGF

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RRGKKMGHDVDFLITSPGSTEDDEEQLLQKVMNLWEKKGLLLYYDLVESTFEKLRLPS
RKVDALDHFQKCFILFKLPQRVDSQSSWQEGKTWKAIRVDLVLCPYERRAFALL
GWTGSRQFERDLRRYATHERKMILDNHALYDKTKRIFLKAESSEEEIFAHGLDYIEP
WERN A

Purity

90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

Storage

Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.
Storage of Reconstituted Protein:
Short-term storage: Store at 2-8 centigrade for two weeks.
Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 $\mu\text{g}/\mu\text{l}$ in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details).
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature (see below).

GENE INFORMATION

Gene Name

DNTT deoxynucleotidyltransferase, terminal [Homo sapiens]

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Official Symbol	DNTT
Synonyms	DNTT; deoxynucleotidyltransferase, terminal; DNA nucleotidylexotransferase; TDT; Terminal deoxynucleotidyltransferase; terminal transferase; terminal addition enzyme; terminal deoxynucleotidyltransferase; terminal deoxyribonucleotidyltransferase; nucleosidetriphosphate:DNA deoxynucleotidylexotransferase;
Gene ID	1791
mRNA Refseq	NM_001017520
Protein Refseq	NP_001017520
MIM	187410
UniProt ID	P04053

