

Terminal Deoxynucleotidyl Transferase (TdT) Recombinant Protein | TdT recombinant protein

Terminal Deoxynucleotidyl Transferase (TdT)

CATALOG # AAA332528	HOST E. coli
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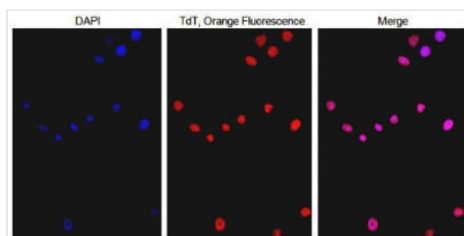
PRODUCT SYNONYMS

Terminal Deoxynucleotidyl Transferase (TdT); TdT; DNA nucleotidylexotransferase; Terminal addition enzyme; Terminal deoxynucleotidyltransferase; Terminal transferase; TdT recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	> 90% as determined by SDS-PAGE
Form/Format	The recombinant bovine TdT reconstitution solution, the compound solution is a liquid in sterile aqueous solution, 50 mM K ₂ HPO ₄ , 100 mM NaCl, 1 mM DTT, 0.1% Tween20, 1% BSA, 50% Glycerol, pH6.5.
Tag	TdT
Protein Construction	The recombinant bovine TdT consists of 509 amino acids and migrates with an apparent molecular mass of 58.3kDa as estimated in SDS-PAGE under reducing conditions.
Unit Definition	One unit of the enzyme catalyzes the incorporation of 1 nmol of deoxythymidylate into a polynucleotide fraction in 60 min at 37°C.
Usage Notes	The Equilibration Buffer (5×) stock solution is stored at low temperature, resulting in a small amount of component precipitation. Please invert and mix before use. And Equilibration Buffer (5×) contains cacodylate and cobalt chloride, highly toxic chemicals. After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately.
Preparation and Storage	Store at -20 degree C.

IMAGES

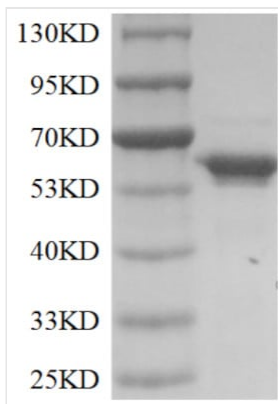


Application Data
Formulation

Components	Size 1	Size 2
Terminal Deoxynucleotidyl Transferase (TdT), 2 mg/mL	40 µg	100 µg
Equilibration Buffer (5×)	0.5 mL	1 mL

IF (Immunofluorescence)

Fluorescence images using TdT and Fluorescence-labeled dUTP in HeLa cells with the treatment of 10 U/mL Dnase I for 10min. The cells were counterstained with DAPI.



SDS-PAGE

Fig. SDS-PAGE analysis of TdT.

ADDITIONAL INFORMATION

Related Product Information for TdT recombinant protein	Description: Terminal Deoxynucleotidyl Transferase (TdT), expressed in Null Background: Terminal deoxynucleotidyl transferase (TdT), also known as terminal transferase, is a specialized DNA polymerase expressed in immature, pre-B, pre-T lymphoid cells, and acute lymphoblastic leukemia/lymphoma cells. Generally, TdT catalyses the addition of nucleotides to the 3' terminus of a DNA molecule. Unlike most DNA polymerases, it does not require a template. The preferred substrate of this enzyme is a 3'-overhang, but it can also add nucleotides to blunt or recessed 3' ends.
Product Categories/Family for TdT recombinant protein	Cytokines; Cell Status Detection; Cellular states; Cytology

NCBI AND UNIPROT INFORMATION

NCBI GI #	29135289
NCBI GeneID	281120
NCBI Accession #	NP_803461.1
NCBI GenBank Nucleotide #	NM_177495.2
UniProt Accession #	P06526; A4FUF8
Molecular Weight	58,296 Da
NCBI Official Full Name	DNA nucleotidylexotransferase
NCBI Official Synonym Full Names	DNA nucleotidylexotransferase
NCBI Official Symbol	DNTT
NCBI Protein Information	DNA nucleotidylexotransferase
UniProt Protein Name	DNA nucleotidylexotransferase
UniProt Gene Name	DNTT
UniProt Synonym Gene Names	TDT; TDT; Terminal transferase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/dntt-recombinant-protein-e-coli/332528>