

TDT Protein, Human (His)

Cat. No.:	HY-P71070
Synonyms:	DNA nucleotidylexotransferase; Terminal addition enzyme; Terminal deoxynucleotidyltr; Terminal deoxynucleotidyltransferase; Terminal transferase; DNNT; TDT
Species:	Human
Source:	E. coli
Accession:	P04053 (M1-A509)
Gene ID:	1791
Molecular Weight:	Approximately 62.0 kDa

PROPERTIES

AA Sequence	<pre> MDPPRASHLS PRKKRPRQTG ALMASSPQDI KFQDLVVFIL EKKMGTTRRA FLMELARRKG FRVENELSDS VTHIVAENNS GSDVLEWLQA QKVQVSSQPE LLDVSWLIEC IRAGKPVEMT GKHQLVVR RD YSDSTNPGPP KTPPIAVQKI SQYACQRRRT LNNCNQIFTD AFDILAENCE FRENEDSCVT FMRAASVLKS LPFTIISMKD TEGIPCLGSK VKGIEEIEIE DGESSEVKAV LNDERYQSFK LFTSVFGVGL KTSEKWF RMG FRTL SKVRS D KSLKFTRMQK AGFLYYEDLV SCVTRAEAEA VSVLVKEAVW AFLPDAFVTM TGGFRRGKKM GHDVDFLITS PGSTEDEEQL LQKVMNLWEK KGLLLYYDLV ESTFEKLR LP SRKVDALDHF QKCFLIFKLP RQRVDS DQSS WQEGKTWKA I RVDLVLC PYE RRA FALLGWT GSRQFERDLR RYATHERKMI LDNHALYDKT KRIFLKAESE EEIFAHLGLD YIEPW ERNA </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 0.1 M KH ₂ PO ₄ , 200 mM KCl, 1 mM 2-Mercaptoethanol, 50% Glycerol, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

The TDT protein is a template-independent DNA polymerase that carries out the non-specific addition of deoxynucleoside 5'-triphosphate to the 3'-end of a DNA initiator. One of its important roles in vivo is adding nucleotides at the junction (N region) of rearranged Ig heavy chain and T-cell receptor gene segments during the maturation process of B- and T-cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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