



# Recombinant Human DNA nucleotidylexotransferase (DNTT)

<b>Product Code</b>	CSB-EP007088HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P04053
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MDPPRASHLSRKKRPRQTGALMASSPQDIKFQDLVVFIEKKMGTTTRRAFLM ELARRKG FRVENELSDSVTHIVAENNSGSDVLEWLQAQKVQVSSQPELLDVSWLIECIRA GKPVEMT GKHQLVVRDYSdstnpgppktpPIAVQKISQYACQRRTTLNncnQIFTDAFDI LAENCE FRENEDSCVTFMRAASVLKSLPFTIISMKDTEGIPCLGSKVKGIIIEEIIEDGESSE VKAV LNDERYQSFKLFTSVFGVGLKTSEKWFRMGFRTLskvRSDKSLKFTRMQKAG FLYYEDLV SCVTRAEAEAVSVLVKEAVWAFLPDAFVTMTGGFRRGKKMGHDVDFLITSPG STEDEEQL LQKVMNLWEKKGLLLYYDLVESTFEKLRLPSRKVDALDHFQKCFILFKLPRQRV DSDQSS WQEGKTWKAIRVDLVLCPYERRAFALLGWTGSRQFERDLRRYATHERKMILD NHALYDKT KRIFLKAEESEEIFAHLGLDYIEPWERNA
<b>Source</b>	E.coli
<b>Target Names</b>	DNTT
<b>Protein Names</b>	Recommended name: DNA nucleotidylexotransferase EC= 2.7.7.31 Alternative name(s): Terminal addition enzyme Terminal deoxynucleotidyltransferase Short name= Terminal transferase
<b>Expression Region</b>	1-509
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.