

**Product Name: Recombinant Human TDT (N-6His)**  
**Catalog #: PEH2327**



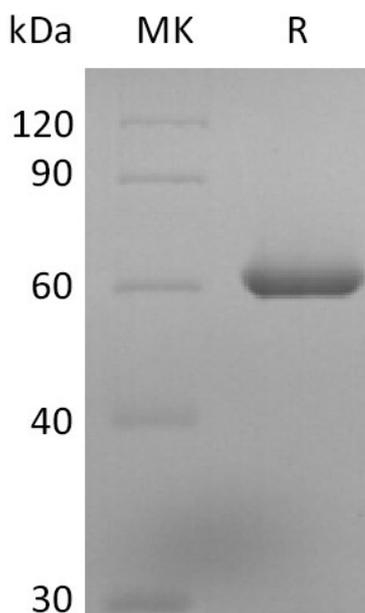
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## Summary

<b>Name</b>	DNTT/TDT
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human DNA Nucleotidylexotransferase is produced by our E.coli expression system and the target gene encoding Met1-Ala509 is expressed with a 6His tag at the N-terminus.
<b>Accession #</b>	P04053
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	60.7 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 0.1M KH <sub>2</sub> PO <sub>4</sub> , 200mM KCl, 1mM 2-Mercaptoethanol, 50% Glycerol, pH 7.2.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image

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### **Alternative Names**

DNA nucleotidylexotransferase; Terminal addition enzyme; Terminal deoxynucleotidyltr; Terminal deoxynucleotidyltransferase; Terminal transferase; DNNT; TDT

### **Background**

Terminal deoxynucleotidyl transferase (TdT) is a highly conserved vertebrate enzyme that possesses the unique ability to catalyze the random addition of deoxynucleoside 5-triphosphates onto the 3-hydroxyl group of a single-stranded DNA. It plays an important role in the generation of immunoglobulin and T-cell receptor diversity. One of the *in vivo* functions of this enzyme is the addition of nucleotides at the junction (N region) of rearranged Ig heavy chain and T-cell receptor gene segments during the maturation of B- and T-cells.

### **Note**

For Research Use Only , Not for Diagnostic Use.