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

## Summary

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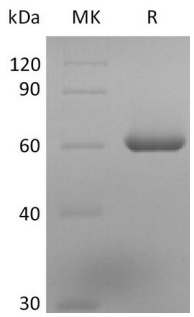
| **Name** | DNTT/TDT |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human DNA Nucleotidylexotransferase is produced by our E.coli expression system and the target gene encoding Met1-Ala509 is expressed with a 6His tag at the N-terminus. |
| **Accession #** | P04053 |
| **Host** | E.coli |
| **Species** | Human |
| **Predicted Molecular Mass** | 60.7 KDa |
| **Formulation** | Supplied as a 0.2 μm filtered solution of 0.1M KH2POsub//u003E4/sub//u003E, 200mM KCl, 1mM 2-Mercaptoethanol, 50% Glycerol, pH 7.2. |
| **Shipping** | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below. |
| **Stability&Storage** | 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. |
| **Reconstitution** | |

## SDS-PAGE image




## Background

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| **Alternative Names** | DNA nucleotidylexotransferase; Terminal addition enzyme; Terminal deoxynucleotidyltr; Terminal deoxynucleotidyltransferase; Terminal transferase; DNTT; 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 immunoglobin 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.