

TDT Protein, Human, Recombinant (His)

General Information

Synonyms:	Terminal transferase;Terminal deoxynucleotidyltr;DNNT;Terminal deoxynucleotidyltransferase;DNA nucleotidylexotransferase;TDT;Terminal addition enzyme
Protein Construction:	Met1-Ala509
Species:	Human
Expression Host:	E. coli
Accession:	P04053
Molecular Weight:	62 KDa (reducing condition)
AA Sequence:	Met1-Ala509

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 0.1M KH ₂ PO ₄ , 200 mM KCl, 1 mM 2-Mercaptoethanol, 50% Glycerol, pH 7.2.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

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