

# Recombinant Human TDP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TDP1-2334H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	TDP1 MS Standard C13 and N15-labeled recombinant protein (NP_001008744) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	The protein encoded by this gene is involved in repairing stalled topoisomerase I-DNA complexes by catalyzing the hydrolysis of the phosphodiester bond between the tyrosine residue of topoisomerase I and the 3-prime phosphate of DNA. This protein may also remove glycolate from single-stranded DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA double-strand breaks. This gene is a member of the phospholipase D family and contains two PLD phosphodiesterase domains. Mutations in this gene are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1).
<b>Molecular Mass</b>	68.4 kDa
<b>AA Sequence</b>	MSQEGDYGRWTISSSDESEEEKPKPDKPSTSSLLCARQGAANEPRYTCSEAQKAA HKKRISPVKFSNTDSVLPPKRQKSGSQEDLGWCLSSSDDELQPEMPQKQAEKVVIK KEKDISAPNDGTAQR TENHGAPACHRLKEEED EYETSGEGQDIWDM LDKGNPFQF YLTRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFN YCFDVDWLVKQYPPEFRKKPI LLVHGDKREAKAHLHAQAKPYENISLCQAKLDIAFGTHHTKMMLLLYEEGLRVIHTS

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NLIHADWHQKTQGIWLSPLYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWID  
 VIHKHDLSETNVYLIGSTPGRFQGSQKDNWGHFRLKLLKDHASSMPNAESWPVVG  
 QFSSVGS LGADESKWLCSEFKESMLTLGKESKTPGKSSVPLYLIYPSVENVRTSLEG  
 YPAGGSLPYSIQTAEKQNWLHSYFHKWSAETSGRSNAMPHIKTYMRPSPDFSKIAW  
 FLVTSANLSKAAWGALEKNGTQLMIRSYELGVFLPSAFGLDSFKVKQKFFAGSQEP  
 MATFPVPYDLPELYGSKDRPWIIWNIPIYVKAPDTHGNMWVPSTRTRPLEQKLISEE  
 DLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** TDP1 tyrosyl-DNA phosphodiesterase 1 [ Homo sapiens (human) ]

**Official Symbol** TDP1

**Synonyms** TDP1; tyrosyl-DNA phosphodiesterase 1; FLJ11090; SCAN1; tyr-DNA phosphodiesterase 1; MGC104252;

**Gene ID** 55775

**mRNA Refseq** NM\_001008744

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**Protein Refseq** NP\_001008744

**MIM** 607198

**UniProt ID** Q9NUW8

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