

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

Cat. No. TDP1-4055H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TDP1 MS Standard C13 and N15-labeled recombinant protein (NP_060789) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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).
Molecular Mass	68.2 kDa
AA Sequence	MSQEGDYGRWTISSSDESEEEKPKPKPSTSSLLCARQGAANEPRYTCSEAQKAA HKKRISPVKFSNTDSVLPPKRQKSGSQEDLGWCLSSSDDELQPEMPQKQAEKVVIK KEKDISAPNDGTAQRTENHGAPACHRLKEEEDYETSGEGQDIWDMLDKGNPFQF YLTRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFNCFDVDWLVKQYPPEFRKKPI LLVHGDKREAKAHLHAQAKPYENISLCQAKLDIAFGTHHTKMMLLLYEEGLRVIHTS

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NLIHADWHQKTQGIWLSPLYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWID
 VIHKHDLSETNVYLIGSTPGRFQGSQKDNWGHFRLKLLKDHASSMPNAESWPVVG
 QFSSVGSGLGADESKWLCSEFKESMLTLGKESKTPGKSSVPLYLIYPSVENVRTSLEG
 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_018319

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Protein Refseq NP_060789

MIM 607198

UniProt ID Q9NUW8

SDS-PAGE



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