

Product datasheet for **TP301888**

TDP1 (NM_001008744) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human tyrosyl-DNA phosphodiesterase 1 (TDP1), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201888 protein sequence Red =Cloning site Green =Tags(s)

MSQEGDYGRWTISSSDESEEEKPKPKDPSTSSLLCARQGAANEPRYTCSEAQKAAHKKRISPVKFSNTDS
VLPPKRQKSGSQEDLGWCLSSSDDELQPEMPQKQAEKVIKKEKDISAPNDGTAQRTEHNGAPACHRLKE
EEDYETSQEGQDIWDMLDKGNPFQFYLTRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFNFCFDVDW
LVKQYPPEFRKKPILLVHGDKREAKAHLHAQAKPYENISLCQAKLDIAFGTHHTKMMLLLYEGLRVIIH
TSNLIHADWHQKTQGIWLSPLYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWIDVIHKHDLSET
NVYLIGSTPGRFQGSQKDNWGHFRLKLLKDHASSMPNAESWPVVGQFSSVGSGLGADESKWLCSEFKESM
LTLGKESKTPGKSSVPLYLIYPSVENVRTSLEGYPAGGSLPYSIQTAEQNWLHSHYFHKWSAETSGRSNA
MPHIKTYMRPSPDFSKIAWFLVTSANLSKAAWGALEKNGTQLMIRSYELGVLFLPSAFGLDSFKVKQKFF
AGSQPEMATFPVPYDLPPELYGSKDRPWIIWNIPYVKAPDTHGNMWVPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

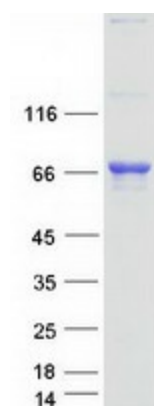
Tag:	C-Myc/DDK
Predicted MW:	68.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001008744
Locus ID:	55775
UniProt ID:	Q9NUW8 , A0A024R6L5 , B3KN41
RefSeq Size:	3540
Cytogenetics:	14q32.11
RefSeq ORF:	1824
Summary:	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). [provided by RefSeq, Aug 2016]
Protein Families:	Druggable Genome

Product images:



Coomassie blue staining of purified TDP1 protein (Cat# TP301888). The protein was produced from HEK293T cells transfected with TDP1 cDNA clone (Cat# [RC201888]) using MegaTran 2.0 (Cat# [TT210002]).