

Product information

TDP1, 1-608aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3593

Full name: tyrosyl-DNA phosphodiesterase 1 isoform a

NCBI Accession No.: NP_060789

Synonyms: TDP1, Tyrosyl-DNA phosphodiesterase 1, Tyr-DNA phosphodiesterase 1

Description: TDP1, also known as tyrosyl-DNA phosphodiesterase 1, 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. Recombinant human TDP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

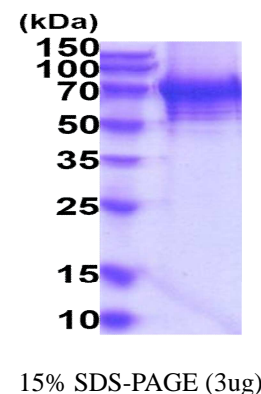
Molecular Weight: 69.5kDa (617aa)
50-70kDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Ala

Purity: > 90% by SDS - PAGE.

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



Sequences of amino acids:

ADPMSQEGDY GRWTISSSDE SEEEKPKPKD PSTSSLLCAR QGAANEPRYT CSEAQKAAHK RKISPVKFSN TDSVLPPKRQ KSGSQEDLGW
 CLSSSDELQ PEMPQKQAEK VVIKKEKDIS APNDGTAQRT ENHGAPACHR LKEEEDYET SGEGQDIWDM LDKGNPFQFY LTRVSGVKPK
 YNSGALHIKD ILSPLFGTLV SSAQFNFCFD VDWLVKQYPP EFRKKPILLV HGDKREAKAH LHAQAKPYEN ISLCQAKLDI AFGTHHTKMM
 LLLYEEGLRV VIHTSNLIHA DWHQKTQGIW LSPLYPRIAD GTHKSGESPT HFKADLISYL MAYNAPSLKE WIDVIHKHDL SETNVYLIGS
 TPGRFQGSQK DNWGHFRLKK LLKDHASSMP NAESWPVVGQ FSSVGSGLGAD ESKWLCSEFK ESMLTLGKES KTPGKSSVPL YLIYPSVENV
 RTSLEGYPAG GSLPYSIQTA EKQNLHHSYF HKWSAETSQR SNAMPHIKTY MRPSPDFSKI AWFLVTSANL SKAAWGALEK NGTQLMIRSY
 ELGVLFLPSA FGLDSFKVKQ KFFAGSQEPM ATFPVPYDLP PELYGSKDRP WIWNIPIYVKA POTHGNMWPV SHHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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Product information

General references:

Jakobsen AK., *et al*, (2015) *Exp. Mol. Pathol.* 99:56-64.

Lebedeva NA., *et al*, (2015) *Biosci. Rep.* 35:e00230.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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