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Recombinant human TDP1 protein

Catalog Number: ATGP3593

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-608aa

UniProt No.

09NUW8

NCBI Accession No.

NP 060789.2

Alternative Names

tyrosyl-DNA phosphodiesterase 1 isoform a, TDP1, Tyrosyl-DNA phosphodiesterase 1, Tyr-DNA phosphodiesterase 1

PRODUCT SPECIFICATION

Molecular Weight

69.5 kDa (617aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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



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DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical meditated DNA doublestrand breaks. Recombinant human TDP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

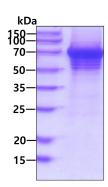
<ADP>MSQEGDY GRWTISSSDE SEEKPKPDK PSTSSLLCAR QGAANEPRYT CSEAQKAAHK RKISPVKFSN TDSVLPPKRQ KSGSQEDLGW CLSSSDDELQ PEMPQKQAEK VVIKKEKDIS APNDGTAQRT ENHGAPACHR LKEEEDEYET SGEGQDIWDM LDKGNPFQFY LTRVSGVKPK YNSGALHIKD ILSPLFGTLV SSAQFNYCFD VDWLVKQYPP EFRKKPILLV HGDKREAKAH LHAQAKPYEN ISLCQAKLDI AFGTHHTKMM LLLYEEGLRV VIHTSNLIHA DWHQKTQGIW LSPLYPRIAD GTHKSGESPT HFKADLISYL MAYNAPSLKE WIDVIHKHDL SETNVYLIGS TPGRFQGSQK DNWGHFRLKK LLKDHASSMP NAESWPVVGQ FSSVGSLGAD ESKWLCSEFK ESMLTLGKES KTPGKSSVPL YLIYPSVENV RTSLEGYPAG GSLPYSIQTA EKQNWLHSYF HKWSAETSGR SNAMPHIKTY MRPSPDFSKI AWFLVTSANL SKAAWGALEK NGTQLMIRSY ELGVLFLPSA FGLDSFKVKQ KFFAGSQEPM ATFPVPYDLP PELYGSKDRP WIWNIPYVKA PDTHGNMWVP S<HHHHHH>

General References

Jakobsen AK., et al, (2015) Exp. Mol. Pathol. 99:56-64. Lebedeva NA., et al, (2015) Biosci. Rep. 35:e00230.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

