

Recombinant human TDP1 protein

Catalog Number: ATGP3593

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-608aa

UniProt No.

Q9NUW8

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 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.

Amino acid Sequence

<ADP>MSQEGDY GRWTISSSDE SEEEKPKPKDK PSTSSLLCAR QGAANEPRYT CSEAQKAAHK RKISPVKFSN TDSVLPPKRO
KSGSQEDLGW CLSSSDDELQ PEMPQKQAEK VVIKKEKDIS APNDGTAQRT ENHGAPACHR LKEEEDYET SGEGQDIWDM
LDKGNPFQFY LTRVSGVKPK YNSGALHIKD ILSPLFGTLV SSAQFNCFD VDWLVKQYPP EFRKKPILLV HGDKREAKAH
LHAQAKPYEN ISLCQAKLDI AFGTHHTKMM LLLYEGLRV VIHTSNLIHA DWHQKTQGIW LSPLYPRIAD GTHKSGESPT
HFKADLISYL MAYNAPSLKE WIDVIHKHDL SETNVYLIGS TPGRFQGSQK DNWGHFRLKK LLKDHASSMP NAESWPVVGQ
FSSVGS LGAD ESKWLCSEFK ESMLTLGKES KTPGKSSVPL YLIYPSVENV RTSLEGYPAG GSLPYSIQTA EKQNWLHSYF
HKWSAETSGR SNAMPHIKTY MRSPDFSKI AWFLVTSANL SKAAWGALEK NGTQLMIRSY ELGVLFLPSA FGLDSFKVKQ
KFFAGSQEPM ATFVPYDLP PELYGSKDRP WIWNIPYVKA PDTHGNMWVP S<HHHHHH>

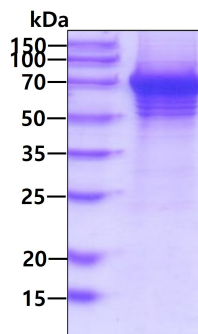
General References

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

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

DATA

SDS-PAGE



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