

TDP1 Human, Tyrosyl-DNA Phosphodiesterase 1 Human Recombinant Protein, Sf9

Catalog Number: PROTQ9NUW8-1

Introduction

TDP1 belongs to the phospholipase D family and contains two PLD phosphodiesterase domains. TDP1 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. TDP1 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. Mutations in the TDP1 gene are linked to the disease spinocerebellar ataxia with axonal neuropathy (SCAN1).

Overview

Product Name	TDP1 Human, Tyrosyl-DNA Phosphodiesterase 1 Human Recombinant Protein, Sf9
Description	TDP1 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 617 amino acids (1-608) and having a molecular mass of 69.5kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). TDP1 is fused to 9 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.
Size	1ug, 5ug, 50ug
Tag	
Form	Sterile Filtered clear solution.
Source	Sf9, Baculovirus cells.
Formulation	TDP1 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Concentration

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino Acid Sequence

ADPMSQEGDY GRWTISSSDE S EEEKPKPDK PSTSSLLCAR QGAANEPRYT CSEAQKAAHK RKISPVKFSN TDSVLPPKRQ KSGSQEDLGW
CLSSSDDELQ PEMPQKQAEK VVIKKEKDIS APNDGTAQRT ENHGAPACHR LKEEED EYET SGEGQDIWDM LDKGNPFQFY LTRVSGVKPK
YNSGALHIKD ILSPLFGTLV SSAQFN YCFD VDWLVKQYPP EFRKKPILLV HGDKREAKAH LHAQAKPYEN ISLCQAKLDI AFGTHHTKMM
LLLYEEGLRV VIHTSNLIHA DWHQKTQGIW LSPLYPRIAD GTHKSGESPT HFKADLISYL MAYNAPSLKE WIDVIHKHDL SETNVYLIGS
TPGRFQGSQK DNWGHFRLKK LLKDHASSMP NAESWPVVGQ FSSVGS LGAD ESKWLCSEFK ESMLTLGKES KTPGKSSVPL YLIYPSVENV
RTSLEGYPAG GSLPYSIQTA EKQNLH SYF HKWSAETSGR SNAMPHIKTY MRPSPDFSKI AWFLVTSANL SKAAWGALEK NGTQLMIRSY
ELGVLFLPSA FGLDSFKVKQ KFFAGSQEPM ATFPVPYDLP PELYGSKDRP WIWNIPYVKA PDTHGNMWVP SHHHHHH.

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