
Product Data Sheet

Product Name: TDP1 Human, Sf9
 Cat. No.: GP22288
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tyrosyl-DNA phosphodiesterase 1; Tyr-DNA phosphodiesterase 1; TDP1; FLJ11090; MGC104252.		
Amino Acid Sequence	<p>ADPMSQEGDY GRWTISSSDE SEEKPKPDK PSTSSLLCAR QGAANEPRYT CSEAQKAAHK RKISPVKFSN TDSVLPPKRQ KSGSQEDLGW CLSSSDDELQ PEMPQKQAEK VVIKKEKDIS APNDGTAQRT ENHGAPACHR LKEEEDYET SGEGQDIWDM LDKGNPFQFY LTRVSGVKPK YNSGALHIKD ILSPLFGTLV SSAQFNCFD VDWLVKQYPP EFRKKPILLV HGDKREKAH LHAQAKPYEN ISLCQAKLDI AFGTHHTKMM LLYEEGLRV VIHTSNLIHA DWHQKTQGIW LSPLYPRIAD GTHKSGESPT HFKADLISYL MAYNAPSLKE WIDVIHKHDL SETNVYLIGS TPGRFQGSQK DNWGHFRLKK LLKDHASSMP NAESWPVVGQ FSSVGLGAD ESKWLCSEFK ESMLTLGKES KTPGKSSVPL YLIYPSVENV RTSLEGYPAG GSLPYSIQTA EKQNLWHSYF HKWSAETSGR SNAMPHIKTY MRPSPDFSKI AWFLVTSANL SKAAWGALEK NGTQLMIRSY ELGVLFLPSA FGLDSFKVKQ KFFAGSQEPM AAFPVPYDLP PELYGSKDRP WIWNIPYVKA PDTHGNMWVP SHHHHHH.</p>		
Formulation	TDP1 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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are linked to the disease spinocerebellar ataxia with axonal neuropathy (SCAN1).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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