

Recombinant Human TDP1 Protein, His-Tagged

Cat. No. TDP1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TDP1 protein, His-tagged was expressed in Baculovirus
Species	Human
Source	Insect Cells
ProteinLength	1-608aa
Description	The protein encoded by this gene 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. This gene is a member of the phospholipase D family and contains two PLD phosphodiesterase domains. Mutations in this gene are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1).
Applications	SDS-PAGE
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Storage Buffer	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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Storage	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.
Concentration	0.25mg/ml (determined by absorbance at 280nm)
Molecular Mass	69.5 kDa (617aa)

GENE INFORMATION

Gene Name	TDP1 tyrosyl-DNA phosphodiesterase 1 [Homo sapiens (human)]
Official Symbol	TDP1
Synonyms	tyrosyl-DNA phosphodiesterase 1 isoform a, TDP1, Tyrosyl-DNA phosphodiesterase 1, Tyr-DNA phosphodiesterase 1
Gene ID	55775
mRNA Refseq	NM_001008744.2
Protein Refseq	NP_060789.2
UniProt ID	Q9NUW8
MIM	607198

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