

TDP1, 1-608aa, Human, His-tag, Baculovirus

Cat.NO.: TP04177

3th Edition

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

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 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.

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:69.5kDa (617aa), 50-70kDa (SDS-PAGE under reducing conditions.)

Sequences:

ADPMSQEGDYGRWTISSSDESEEEKPKPKDPSTSSLLCARQGAANEPRYTCSEAQKAAHKRKISPVKFSNTDSVL
PPKRQKSGSQEDLGWCLSSSDDELQPMPQKQAEKVVIKKEKDISAPNDGTAQR TENHGAPACHRLKEEED EYET
SGEGQDIWDMLDKGNPFQFYLTRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFN YCFDVDWLVKQYPPEFRKKP
ILLVHGDKREAKAHLHAQAKPYENISLCQAKLDIAFGTHHTKMMLLLYEEGLRVVIHTSNLIHADWHQKTQGIWLSPL
YPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWIDVIHKHDLSETNVYLIGSTPGRFQGSQKDNWGHFRLKKL
LKD HASSMPNAESWPVVGQFSSVGLGADESKWLCSEFKESMLTLGKESKTPGKSSVPLYLIYPSVENVRTSLEG
YPAGGSLPYSIQTAEKQNLHLSYFHKWSAETSGRSNAMPHIKTYMRSPDFSKIAWFLVTSANLSKAAWGALEKN
GTQLMIRSYELGVLFLPSAFGLDSFKVKQKFFAGSQEPMATFPVPYDLPELYGSKDRPWIWNIPYVKAPDTHGNM
WVPSHHHHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.