

Recombinant Human Type II Topoisomerase, His-tagged

Cat. No. TOP2B-01H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant hTOP2 β core (residues 445-1201), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Species Human

Source E.coli

ProteinLength 445-1201 a.a.

Form 20 mM Tris-HCl, 200 mM NaCl, pH7.4

Molecular Mass ~87 kDa

AA Sequence

SVKYSKIKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLGVIGRDRYGVFPL
 RGKILNVREASHKQIME NAEINNIKIVGLQYKKSYYDDAESLKTLYGKIMIMTDQQDQD
 GSHIKGLLINFIHHNWPSLLKHGFLEEFITPIV KASKNKQELSFYSIPEFDEWKKHIEN
 QKAWKIKYYYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAF SKKKIDDR
 KEWLTFMEDRRQRRHLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLV
 DGFKPGQRK VLFTCFKRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQN
 FVGSNNINLLQPIGQFGTRLHGGKDAASP RYIFTMLSTLARLLFPAVDDNLLKFLYDD
 NQRVEPEWYIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRR MLDGLDPHPML
 PNYKNFKGTIQELGQNQYAVSGEIFVDRNTVEITELPVRTWTQVYKEQVLEPMLNG
 TDKTPAL ISDYKEYHTDTTVKFVVKMTEEKLAQAEAAAGLHKVFKLQTTTLTCNSMVLV
 DHMGCLKKYETVQDILKEFFDLRLS YYGLRKEWLVGMLGAESTKLNQARFILEKIQ
 GKITIENRSKDLIQMLVQRGYESDPVKAWKEAQEKAAEEDET QNQHDDSSSDSGT

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PSGPDFNYILNMSLWLSLTKEKVEELIKQRDAKGREVNDLKRKSPSDLWKEDLAAFVE
ELDKV ESQERED

Purity >92% as determined by SDS-PAGE

Storage Short Term Storage at +4°C. Long Term Storage at -20°C to -80°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name TOP2B topoisomerase (DNA) II beta 180kDa [Homo sapiens]

Official Symbol TOP2B

Synonyms TOP2B; topoisomerase (DNA) II beta 180kDa; topoisomerase (DNA) II beta (180kD); DNA topoisomerase 2-beta; topo II beta; antigen MLAA-44; topoisomerase IIb; topoisomerase II beta; U937 associated antigen; DNA topoisomerase II beta; DNA topoisomerase II, 180 kD; DNA topoisomerase II, beta isozyme; TOPIIB; top2beta;

Gene ID 7155

mRNA Refseq NM_001068

Protein Refseq NP_001059

MIM 126431

UniProt ID Q02880

Chromosome Location 3p24

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Function

ATP binding; DNA topoisomerase (ATP-hydrolyzing) activity; DNA-dependent ATPase activity; chromatin binding; enzyme binding; histone deacetylase binding; isomerase activity; nucleotide binding; protein C-terminus binding; protein heterodimerization activity; protein kinase C binding;

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