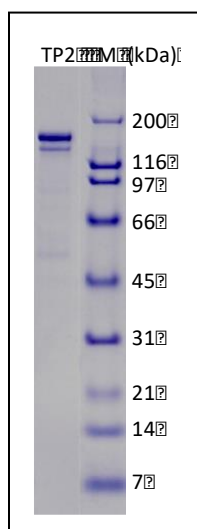


Recombinant DNA Topo II Protein

Catalog Number	Size
AG1061-10	10ug
AG1061-25	25ug
AG1061-B	Bulk

Description

The recombinant human Topoisomerase II (TOP2/Topo II) was expressed in the baculovirus system and purified by an affinity column in combination of other chromatograph methods. The resulted protein is a monomeric polypeptide of 1530 (1518+12) amino acids with a 6His tag at the C-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 160kDa.



MEVSPLQPVNENMQVNKIKKNEDAKKRLSVERIYQKKTQLEHILLRPDTY
IGSVELVTQQMWVYDEVDGINYREVTFVPGLYKIFDEILVNAADNKQRDP
KMSCIRVTIDPENNLISIWNNKGKIPVVEHKVEKMYVPALIFGQLLTSSN
YDDDEKKVTGGRNGYGAKLCNIFSTKFTVETASREYKKMFQWTWMDNMGR
AGEMELKPFNGEDYTCITFQPDLSKFKMQSLDKDIVALMVRRAYDIAGST
KDVKVFLNGNKLPVKGFRSYVDMYLLKDKLDETGNLSLKVIEQVNRHWEVC
LTMSEKGFQQISFVNSIATSKGGRHVDYVADQIVTKLVDVVKKNKGGVA
VKAHQVKNHMIWIFVNALIENPTFDSQTKENMTLQPKSFGSTCQLSEKFIK
AAIGCGIVESILNWVKFKAQVQLNKKCSAVKHNRKIGIPKLDDANDAGGR
NSTECTLILTEGDSAKTLAVSGLGVVGRDKYGVFPLRGKILNVREASHKQ
IMENAEINNIKIVGLQYKKNYEDEDLTKLTRYGKIMIMTDQDQDQDGHK
GLLINFIIHNWPSLLRHRFLFEFITPIVKVSKNKQEMAFYSLPEFEWKS
STPNHKKWKVYKGLGTSTSKAEKEYFADMKRHRIQFKYSGPEDDAIS
LAFSKQIDDRKEWLTNFMEDRRQRKLLGLPEDYLYGQTTTYLTYNDFIN
KELILFSNSDERSIPSMVDGLKPGQRKVLFTCFKRNDKREVKVAQLAGS
VAEMSSYHHGEMSLMMTIINLAQNFVGSNNLNLQPIGQFGRHLHGKDS
ASPRYIFTMLSSLARLLFPKDDHTLKFYDDNQVEPEWYIPIIPMVL
NGAEGIGTGWCKIPNFDVREIVNNIRRLMDGEEPLPMLPSYKNFKGTIE
ELAPNQYVISGEVAILNSTTIEISELPVRTWTQTYKEQVLEPMLNGTEKT
PPLITDYREYHTDTTVKFVVKMTEEKLAEAEVGLHKVFKLQTSLTCSNM
VLFDHVGCLKKYDVTLDILRDFELRLKYYGLRKEWLLGMLGAESAKLNN
QARFILEKIDGKIIENKPKKELIKVLIQRGYSDPVKAWKEAQKVPDE
EENEESDNEKETEKSDSVTDSGPTFNYYLLDMLPLWYLTKEKKDELCLRLNE
KEQELDTLKRKSPSDLWKEDLATFIEELEAVEAKEKQDEQVGLPGKGGKA
KGKKTQMAEVLPSRQGRVIPRITIEMKAEAEKKNKKIKNENTEGSPQE
DGVELEGLKQRLEKKQKREPQTKTKKQTTLAFKPIKKGKRNPNWSDSESD
RSSDESDFVPPRETEPRRAATKTKFTMDLSDSEDFSDFEKTDDEDFVP
SDASPPKTKTSPKLSNKKELKPKQSVVSDLEADDVKGSVPLSSSPATHFP
DETEITNPVPKKNVTVKKTAAKSQSSTSTTGAKKRAAPKGTGRDPALNSG
VSQKPDPAKTKNRKRKPKSTSDSDSNFEKIVSKAVTSKSKSGESDDFHM
DFDSAVAPRAKSVRAKKPIKYLEGGVVDGHHHHHH*

Accession Number

NM_001067

Molecular Mass

Approximately 160kDa.

Purity

≥90%, as determined by SDS-PAGE.



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Biological Activity

The DNA topoisomerase II (Topo II) is an enzyme that controls and alters the topologic states of DNA during transcription. This protein is involved in chromosome condensation, chromatid separation, and other processes including tumorigenesis. The recombinant Topo II protein can be used for the studies of in vitro transcription, protein-protein/protein-DNA interactions and other related function assays.

Formulation

20mM Tris-Cl (pH7.9), 20% glycerol 150mM NaCl, 1mM DTT and 3mM EDTA.

Storage

The protein sample can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C for three months without detectable loss of activity. (***Avoid repeated freeze-thaw cycle***)

FOR RESEARCH USE ONLY!!!