



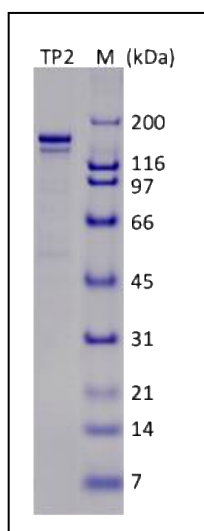
AscentGene, Inc.
900 Clopper Road
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Recombinant DNA Topo II (Sf21)

Catalog Number	Size
AG314-10	10ug
AG314-25	25ug
AG314-B	Bulk

Description

Recombinant human DNA Topoisomerase II (Topo II) was expressed in Sf9 cells and purified by an affinity column in combination of other chromatograph methods. The resulted protein is a monomeric polypeptide of 1535 (1523+12) amino acids with a 6His tag at the C-terminus. It migrates in SDS-PAGE with an apparent molecular mass of 160kDa.



MEVSPLQPVNENMQVNKIKKNEDAKKRLSVERIYQKKTQLEHILLRPDTY
IGSVELVTQQMWVYDEDVGINYREVTFVPGLYKIFDEILVNAADNKQRDP
KMSCIRVTIDPENNLISIWNNKGKIPVVEHKVEKMYVPALIFGQLLTSSN
YDDDEKKVTGGRNGYGAKLCNIFSTKFTVETASREYKKMFKQTWMDNMGR
AGEMELKPFNGEDYTCITFQPDLSKFKMQSLDKDIVALMVRRAYDIAGST
KDVKVFLNGNKL PVKGFRSYVDMY LKDKLDETGNSLKVIHEQVNRWEVC
LTMSEKGFQQISFVNSIATSKGGRHVDYVADQIVTKLVDVVKKNKGGVA
VKAHQVKNHMI FVNALIENPTFDSQTKENMTLQPKSFGSTCQLSEKFIK
AAIGCGIVESILNWVKFKAQVQLNKKCSAVKHNRIKGI PKLDDANDAGGR
NSTECTLILTEGDSA KTLAVSGLGVVGRDKYGVFP LRGKILNVREASHKQ
IMENAEINNI IKIVGLQYKKNYEDED SLKTLRYGKIMIMTDQDQDGSNIK
GLLINFIHNNWPSLLRHRFLEEFITPIVKVSKNKQEMAFYSLPEFEWKS
STPNHKKWKVYKGLGTSTSKAEKEYFADMKRHR IQFKYSGPEDDA AIS
LAFSKQIDDRKEWLTNFMEDRRQRKLLGLPEDYLYGQTTTTYLTYNDFIN
KELILFSNSDNERSIPSMVDGLKPGQRKVLFTCFKRNDKREVKVAQLAGS
VAEMSSYHHGEMSLMMTI INLAQNFGVSNNLNL LQPIGQFGR LHHGKDS
ASPRYIFTMLSS LARLLFPKDDHTLKF LYDDNQ RVEPEWYIPIIPMVL I
NGAEGIGTGWSCKIPNFDVREIVNNIRRLMDGEEPLPMLPSYKNFKGTIE
ELAPNQYVISGEVAILNSTTIEISELPVRTWTQT YKEQVLEPMLNGTEKT
PPLITDYREYHTDTTVKFVVKMTEEKLAEAEVGLHKVFKLQTS LTCNSM
VLFDHVGCLKKYD TVLDILRDF FELRLKY YGLRKEWLLGMLGAESA KLN
QARFILEKIDGKII IENKPKKELIKVLIQRGYSDSPVKAWKEAQKVPDE
EENEESDNEKETEKSDSVTDSGPTFNYLLDMPLWYLTKEKKDELCLRNE
KEQELDTLKRKSPDLWKEDLATFIEELEAVEAKEKQDEQVGLPGKGGKA
KGKKTQMAEVLPSPRGQRVIPRIT IEMKAEAEKKNKKIKNENTEGSPQE
DGVELEGLKQRLEKKQKREPGTKTKKQTTLAFKPIKKGKKRNPWSDSESD
RSSDES NFDVPPRETEPRRAATKTKFTMDLSDSEDFSDFDEKTDDEDFVP
SDASPPKTKTSPKLSNKEKLPQKSVVSDLEADDVKGSVPLSSSPPATHFP
DETEITNPVPKKNVTVKKTAAKSQSSTSTTGAKKRAAPKGTKRDPALNSG
VSQKPDPAKTKNRRKRKPSTSDSDSNFEKIVSKAVTSKSKGESDFFHM
DFDSAVAPRAKSVRAKKPIKYLEGGGV DGH HHHHHH*

Source

Baculovirus (Sf21)

Molecular Mass

Approximately 160kDa.



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Purity	≥90%, as determined by SDS-PAGE.
Biological Activity	Human DNA Topo II protein controls the status of DNA during transcription and involved in chromatin condensation, chromatin separation and transcription. Recombinant Topo II is suitable for the studies of altering the topologic states of DNA in transcription and other related function assays.
Formulation	20mM Tris-Cl (pH7.9), 20% glycerol 100mM NaCl , 1mM DTT and 1mM 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. (<i>Avoid repeated freeze-thaw cycle</i>)

FOR RESEARCH USE ONLY!!!