



## Recombinant Human Topoisomerase I (Sf9)

Catalog Number	Size
AG313-10	10ug
AG313-25	25ug
AG313-B	Bulk

### *Specifications and Use*

#### **Description**

Recombinant human topoisomerase I produced in Sf9 cells is a single polypeptide chain with a 6His tag at the N-terminus. It contains 779 (15+764) amino acids having a predicted molecular mass of approximately 92.5kD, but migrates in SDS-PAGE with an apparent molecular mass of 105kD.

MHHHHHGRRASVEFSGDHLHNSQIEADFRNLNDSHKHKDKHKDREHRHK  
EHKKEKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSEKHKDKHKDRDK  
EKRKEEKVRASGDAKIKKEKENGFSPPQIKDEPEDDG YFVPPKEDIKPL  
KRPRDEDDADYKPKKIKTEDTKKEKKRKL EEEEEEDGKLKPKNKDKDKKVP  
EPDNKKKKPKKEEQKWKWWEERYPEGIKWKFLEHKGPVFAPPYEPLPE  
NVKFYYDGKVMKLSPKAEEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEM  
TNEEKNIITNLSKCDFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLK  
EYGF CIMDNHKERIANFKIEPPGLFRGRGNHPKMGMMLKRRIMPEDIINC  
SKDAKVPSPPPGHK WKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSSRIK  
GEKDWQKYETARRLKCKVDKIRNQYREDWKS KEMKVRQRAVALYFIDKLA  
LRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVVEFDLFGKDSIR  
YYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTA  
KVFRTYNASITLQQQLKELTAPDENIPAKILSYNRANRAVAILCNHQRAP  
PKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVMKDAKTKKVVES  
KKKAVQRLEEQLMKLEVQATDREENKQIALGT SKLNYLDPRITVAWCKKW  
GVPIEKIYNKTQREKFAWAIDMADEYEF

#### **Accession Number**

NM\_003286

#### **Source**

Baculovirus

#### **Molecular Mass**

~100kDa

#### **Purity**

≥90%, as determined by SDS-PAGE

#### **Biological Activity**

DNA Topoisomerase I catalyzes the latering the topology of DNA during transcription and replication. Recombinant Topo I protein is ideal for the studies of DNA topology and other related function assays.

#### **Formulation**

20mM Tris-Cl (pH7.9), 20% Glycerol, 100mM NaCl, 1mM DTT and 0.5mM EDTA

#### **Storage**

The protein sample can be stored under sterile conditions at 2- 8 oC for one month or at -70oC for three months without detectable loss of activity.

**Avoid repeated freeze-thaw cycles**

#### **Special Notes**

**FOR RESEARCH ONLY**