

## Product datasheet

# Recombinant Human Topoisomerase I protein ab82099

### 概述

产品名称	重组人Topoisomerase I蛋白
蛋白长度	Full length protein

### 描述

性质	Recombinant
来源	Baculovirus

### 氨基酸序列

Accession [P11387](#)

种属 Human

序列  
 MSGDHLHNSQIEADFRLNDSHKHKDKHKDREHRHKEHKKEKDREKSKHS  
 NSEHKDSEKHKKEKEKTKHKDGSSEKHKDKHKDRDKEKRKEEKVRASGDA  
 KIKKEKENGFSPPQIKDEPEDDGYFVPPKEDIKPLKRPRDEDDADYKPK  
 KIKTETDKKEKRRKLEEEEDGKLLKPKNKDKDKKVPEDNKKKKPKKEEE  
 QKWKWEEERYPEGIKWKFLEHKGPFVAPPYEPLPENVKFYDYGKVMKLS  
 PKAEVATFFAKMLDHEYTTKEIFRKNFFKDWKEMTNEEKNIITNLSKC  
 DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERI  
 ANFKIEPPGLFRGRGNHPKMGMLKRRIMPEDIIINCSKDAKVPSPPPGHK  
 WKEVRHDNKVTLVSWTENIQGSIKYIMLNPSRIKGEKDWQKYETARRL  
 KKCVDKIRNQYREDWKSKEMKVRQRAVALYFIDKLALRAGNEKEEGETAD  
 TVGCCSLRVEHINLHPELDGQEYVVEFDLFGKDSIRYYNKVPVEKRVFKN  
 LQLFMENKQPEDDLFDRLNTGILNKHLLQDLMEGLTAKVFRTYNASITLQQ  
 QLKELTAPDENIPAKILSYNRANRAVAIILCNHQRAPPKTFEKSMMNLQTK  
 IDAKKEQLADARRDLKSAKADAKVMKDAKTKKVVESKKKAVQRLLEEQLMK  
 LEVQATDREENKQIALGTSKLNYLDPRITVAWCKKKGVPKIEKIYNKTQRE  
 KFAWAIDMADEDYEF

氨基酸 1 to 765

### 技术指标

Our [Abpromise guarantee](#) covers the use of **ab82099** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用 SDS-PAGE

<b>形式</b>	Liquid
<b>补充说明</b>	<p>1 unit equals 1 nanogram purified protein. 0.1 – 1 unit (ng) is sufficient for relaxing 0.5 µg of pBR322 supercoiled DNA in a 20 µl reaction.</p> <p>Purified topo I has been used for in vitro transcriptional activation, pre-mRNA splicing/phosphorylation, DNA binding and DNA relaxation assays.</p>

## 制备和贮存

<b>稳定性和存储</b>	<p>Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.</p> <p>Preservative: None</p> <p>Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0</p>
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## 常规信息

<b>功能</b>	The reaction catalyzed by topoisomerases leads to the conversion of one topological isomer of DNA to another.
<b>疾病相关</b>	Note=A chromosomal aberration involving TOP1 is found in a form of therapy-related myelodysplastic syndrome. Translocation t(11;20)(p15;q11) with NUP98.
<b>序列相似性</b>	Belongs to the eukaryotic type I topoisomerase family.
<b>翻译后修饰</b>	Sumoylated. Lys-117 is the main site of sumoylation. Sumoylation plays a role in partitioning TOP1 between nucleoli and nucleoplasm. Levels are dramatically increased on camptothecin (CPT) treatment.
<b>细胞定位</b>	Nucleus > nucleolus. Nucleus > nucleoplasm. Diffuse nuclear localization with some enrichment in nucleoli. On CPT treatment, cleared from nucleoli into nucleoplasm. Sumolyated forms found in both nucleoplasm and nucleoli.

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