

Product datasheet

Recombinant Human Topoisomerase I protein ab82099

概述

产品名称	Recombinant人Topoisomerase I protein
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 KIKTEDTKKEKRRKLEEEEDGKLLKPKNKDKDKKVPEDNKKKKPKKEEE QKWKWEEERYPEGIKWKFLEHKGPFVAPPYEPLPENVKFYDGVKMLLS PKAEEVATFFAKMLDHEYTTKEIFRKNFFKDRKEMTNEEKNIITNLSKC DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERI ANFKIEPPGLFRGRGNHPKMGMLKRRIMPEDIIINCSKDAKVPSPPGHK WKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSRIKGEKDWQKYETARRL KKCVDKIRNQYREDWKSKEMKVRQRAVALYFIDKLALRAGNEKEEGETAD TVGCCSLRVEHINLHPELDGQEYVVEFDFLGKDSIRYYNKVPVEKRVFKN LQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTAKVFRTYNASITLQQ QLKELTAPDENIPAKILSYNRANRAVAAILCNHQRAPPKTFEKSMMLQTK IDAKKEQLADARRDLKSAKADAKVMKDAKTKKVVESKKAQVRLLEEQLMK LEVQATDREENKQIALGTSKLNYLDPRITVAWCKKWGVPIEKIYNKTQRE 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
形式	Liquid
补充说明	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.

Purified topo I has been used for in vitro transcriptional activation, pre-mRNA splicing/phosphorylation, DNA binding and DNA relaxation assays.

制备和贮存

稳定性和存储

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 20% Glycerol, 20mM Tris Cl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0

常规信息

功能

The reaction catalyzed by topoisomerases leads to the conversion of one topological isomer of DNA to another.

疾病相关

Note=A chromosomal aberration involving TOP1 is found in a form of therapy-related myelodysplastic syndrome. Translocation t(11;20)(p15;q11) with NUP98.

序列相似性

Belongs to the eukaryotic type I topoisomerase family.

翻译后修饰

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.

细胞定位

Nucleus > nucleolus. Nucleus > nucleoplasm. Diffuse nuclear localization with some enrichment in nucleoli. On CPT treatment, cleared from nucleoli into nucleoplasm. Sumoylated forms found in both nucleoplasm and nucleoli.

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