

Product datasheet

Recombinant Human Topoisomerase I protein ab82095

Overview

Product name	Recombinant Human Topoisomerase I protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Baculovirus

Amino Acid Sequence

Accession	P11387
Species	Human
Amino acids	1 to 197

Specifications

Our [Abpromise guarantee](#) covers the use of **ab82095** in the following tested applications.

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

Biological activity	0.1 - 10 units (ng) have been tested for an in vitro relaxation assay in a 20 µl reaction and contain no detectable DNA relaxation activity.
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Applications	SDS-PAGE
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Form	Liquid
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Preparation and Storage

Stability and Storage	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
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General Info

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

Involvement in disease

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

Sequence similarities

Belongs to the eukaryotic type I topoisomerase family.

Post-translational modifications

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.

Cellular localization

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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