

# Recombinant Full Length Human DNA topoisomerase I Protein, His tagged

**Cat. No.** Sci-70-23HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Full-length cDNA coding for the human DNA topoisomerase I (Sci-70) fused to a hexa-histidine purification tag was expressed in baculovirus (Autographa californica multiple nuclear polyhedrosis virus; AcMNPV) infection of <i>Spodoptera frugiperda</i> Sf9 insect cells.
<b>Species</b>	Human
<b>Source</b>	Baculovirus
<b>ProteinLength</b>	1-765 aa
<b>Description</b>	This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This enzyme catalyzes the transient breaking and rejoining of a single strand of DNA which allows the strands to pass through one another, thus altering the topology of DNA. This gene is localized to chromosome 20 and has pseudogenes which reside on chromosomes 1 and 22.
<b>Tag</b>	His
<b>Calculated isoelectric point</b>	pH 9.3
<b>Molecular Mass</b>	92 kDa

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<b>Immunological function</b>	Binds IgG-type human auto-antibodies.
<b>Immunological tests</b>	Standard ELISA test (checkerboard analysis of positive/negative samples, including CDC international reference sera); line assay and immunodot analyses with positive/negative samples.
<b>Biochemical tests</b>	SDS-PAGE (purity > 80%); Western blot with i: anti-Scl-70 auto-antibody positive sample; ii: monoclonal anti His-tag antibody.
<b>Storage</b>	At -70 centigrade or below. Repeated freeze/thaw cycles should be avoided.
<b>Storage Buffer</b>	Neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.
<b>Concentration</b>	0.5-0.8 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

## GENE INFORMATION

<b>Gene Name</b>	TOP1 DNA topoisomerase I [ Homo sapiens (human) ]
<b>Official Symbol</b>	TOP1
<b>Synonyms</b>	TOP1; DNA topoisomerase I; TOPI; DNA topoisomerase 1; Scl-70 antigen; topoisomerase (DNA) I; type I DNA topoisomerase; EC 5.6.2.1
<b>Gene ID</b>	7150
<b>mRNA Refseq</b>	NM_003286
<b>Protein Refseq</b>	NP_003277

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<b>MIM</b>	126420
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<b>UniProt ID</b>	O43256
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