

Recombinant Full Length Human DNA topoisomerase I Protein, His tagged

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

SPECIFICATION

Product Overview	Full-length cDNA coding for the human DNA topoisomerase I (Scl-70) fused to a hexa-histidine purification tag was expressed in baculovirus (Autographa californica multiple nuclear polyhedrosis virus; AcMNPV) infection of Spodoptera frugiperda Sf9 insect cells.
Species	Human
Source	Baculovirus
ProteinLength	1-765 aa
Description	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.
Tag	His
Calculated isoelectric point	pH 9.3
Molecular Mass	92 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

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

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MIM	126420
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UniProt ID	O43256
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