

TOP1

Recombinant Human DNA Topoisomerase 1, His Tag

Catalog No.	CSI13906A	Quantity:	5 µg
	CSI13906B		20 µg
	CSI13906C		1 mg

Alternate Names: DNA topoisomerase 1

Description: DNA topoisomerase I is a key nuclear enzyme that interconverts supercoiled DNA to the required topological conformations for normal DNA replication and transcription. This enzyme is the target antigen for the so-called Scl-70 autoantibodies. Scl-70 antibodies are a specific marker in Scleroderma patients (specificity 98-100%) and are associated with the presence of diffuse skin involvement and pulmonary fibrosis. In human tissues the DNA topoisomerase I is initially synthesized as a protein with 100 kDa molecular weight. Most of this precursor is then proteolytically processed to a species with 70 kDa molecular weight from which the Scl-70 antigen has derived its name.

UniProt ID: P11387

Gene ID: 7150

Tag: 6xHis

Source: Sf9 insect cells

Molecular Weight: 102 kDa

Formulation: Sterile-filtered 16 mM HEPES buffer pH 7.5, 400 mM NaCl containing 20% glycerol.

Purity: >95% as determined by SDS-PAGE.

Concentration: 1.0 mg/ml, lot specific

Storage & Stability: Store at 2-8°C for use within 2 weeks, otherwise store in aliquots at -20°C to -80°C for at least 6 months. **Avoid multiple freeze-thaw cycles.**

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