

Recombinant Human DNA Topoisomerase (TOP1)

Catalog No.	CSI13906A CSI13906B CSI13906C	Quantity:	5 µg 20 µg 1 mg
Alternate Names:	DNA topoisomerase 1, EC 5.99.1.2, DNA topoisomerase I, TOP1, Scl-70.		
Description:	DNA Topoisomerase-I Human Recombinant produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 91,576 Dalton (excluding glycosilation) 102 kDa total mass. The TOP1 is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.		
Introduction:	<p>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.</p> <p>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.</p>		
Gene ID:	7150		
Source:	Sf9 insect cells		
Formulation:	TOP1 is supplied in 16mM HEPES buffer pH-7.5, 400mM sodium chloride, and 20% glycerol.		
Purity:	Greater than 95% as determined by SDS-PAGE.		
Physical Appearance:	Sterile Filtered clear solution.		
Storage & Stability:	<p>Store at 4°C if entire vial will be used within 2-4 weeks.</p> <p>Store, frozen at -20°C for longer periods of time.</p> <p>Avoid multiple freeze-thaw cycles.</p>		

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