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TOP1 Human

Catalog #:ENPS-313

For research use only.

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.

Synonyms:DNA topoisomerase 1, EC 5.99.1.2, DNA topoisomerase I, TOP1, Scl-70.

Source: Sf9 insect cells.

Physical Appearance: Sterile Filtered clear solution.

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:

TOP1 is supplied in 16mM HEPES buffer pH-7.5, 400mM sodium chloride, and 20% glycerol.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

DNA toposisomerase 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.

Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

To place an order, please Click HERE.