
Product Data Sheet

Product Name: TOP1 Bovine
Cat. No.: GP22310
Batch No.: 1

Product Data

Purity	>98%	Source	Bovine tissues.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DNA topoisomerase 1; EC 5.99.1.2; DNA topoisomerase I; TOP1; Scl-70.		
Formulation	TOP1 is supplied at a concentration of 1mg/1ml in 16mM HEPES buffer pH-7.5, 400mM NaCl and 20% glycerol.		

Introduction

TOP1 is an important nuclear enzyme that interconverts supercoiled DNA to the necessary topological conformations for standard DNA replication and transcription. TOP1 is the target antigen for TOP1 autoantibodies. TOP1 antibodies are a specific marker in scleroderma patients (specificity 98-100%) and are related with the existence of diffuse skin involvement and pulmonary fibrosis. In human tissues top1 enzyme is primarily synthesized as a protein with a molecular weight of 100-kDa. Most of this precursor is then proteolytically processed to a 70-kDa size, from which the TOP1 antigen has derived its name.

Stability

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.

Background

Bovine DNA Topoisomerase-I purified from bovine tissues by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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