
Product Data Sheet

Product Name: TOP1 70kDa Human

Cat. No.: GP22309

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 insect cells.
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 70kDa is supplied in 20mM HEPES buffer pH-8.0, 500mM 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

Recombinant TOP1 70kDa protein is an enzyme fragment having a molecular mass of 69,199 Dalton (pH 9.4). TOP1 70kDa protein is fused to a hexa-histidine purification tag.

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

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