SCL-70
Human, Recombinant
Expressed in E. coli

Product Number S7064
Storage Temperature –20 °C

Product Description
Scl-70 is produced from a cDNA sequence encoding human Scl-70, a 70 kDa metabolite of topoisomerase I. It is expressed in E. coli. This antigen is intended for use in immunological assays and has been tested for reactivity by western blot. The antigen reacts strongly with human scleraderma antiserum.

Scl-70 is an autoimmune antigen used to detect progressive systemic sclerosis (PSS). In 1986, three laboratories reported that Scl-70 is a product of the proteolytic degradation of DNA topoisomerase I, a 95 kDa enzyme that is abundant in all cell nuclei. Two forms of PSS have been described, diffuse scleraderma and limited scleraderma. Scl-70 reacts only with autoantibodies of diffuse scleraderma. Occasionally, autoantibodies of SLE (systemic lupus erythematosus) and MCTD (mixed connective tissue disease) also crossreact with this antigen.

Reagent
Recombinant human Scl-70 is supplied as a solution in 10 mM tris HCl buffer, pH 8.0, containing 6 M urea and 500 mM NaCl. Optimal dilutions should be determined by each laboratory for each application.

Precautions and Disclaimer
For research use only. Not suitable for clinical diagnostic use.

Storage/Stability
Recombinant human Scl-70 should be stored at –20 °C. Avoid repeated freeze-thaw cycles. Do not store in a frost-free freezer.

Reference

LCM 12/01