

Product Specification Sheet

Purified ssDNA (Calf Thymus)-Cellulose, Affinity matrix

- Cat. #** DNAS25-AS ssDNA-cellulose (affinity support) (for removing autoantibodies to ssDNA or DNA-binding proteins)
SIZE: 100 mg

Antibodies reactive with ds-DNA or ssDNA, of primary importance for diagnosis of systemic lupus erythematosus (SLE), appear to play a central role in the pathogenesis of tissue injury and are closely correlated with clinical activity. Their presence is also associated with active lupus and usually with immune complex glomerulo-nephritis. Antibodies to ds-DNA are directed against the phosphate-deoxyribose backbone of the DNA molecule, and appear to be generated due to preferential activation of specific B cells and are not merely due to polyclonal B-cell hyperactivity prior to exacerbation of SLE. Antibodies to ssDNA (nucleotide bases) are also common, most notably in ANAs producing homogeneous pattern in indirect immunofluorescence. Anti-ssDNA are also found in non-immunological disorders as wells as in autoimmune diseases such as rheumatoid arthritis, SLE, and systemic sclerosis. However, autoantibodies to dsDNA when present in high concentration are virtually specific for SLE (>90%).

Double- and single-stranded calf thymus DNA celluloses are used to study the binding parameters and binding specificity of a variety of proteins, nucleotides, and chemical reagents including anti-cancer agents. Double-stranded and single-stranded DNA cellulose are frequently used in pull down assays and chromatographic procedures.

Source of Antigen and Antibodies

ssDNA, has been specially purified from Calf thymus and tested by ELISA for reactivity with control ssDNA antibodies. It is high mol wt 10-15 million Daltons (41.9 mole % G_C and 58.1 mole A-T; An OD of 1.0 at 260nm=50 ug of dsDNA). ssDNA was coupled to cellulose (>3 ug/mg of cellulose powder). ssDNA-Cellulose is supplied as lyophilized powder. Store at -20oC. Re-suspend desired amount of ssDNA-cellulose in appropriate buffer. DO not freeze and thaw.

Suggested usage

Affinity purification of ssDNA-binding proteins or antibodies.

Storage

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: Room temp for powder.

*This product is for in vitro research use only.

Related Items

Catalog# ProdDescription

3100	Human anti-dsDNA ELISA Kit, 96 tests, Quantitative
5110	Mouse Anti-dsDNA Ig's (Total A+G+M) ELISA Kit, 96 tests, Quantitative
5120	Mouse anti-dsDNA IgG-specific ELISA Kit, 96 tests, Quantitative
5130	Mouse anti-dsDNA IgM-specific ELISA Kit, 96 tests, Quantitative
650-130-DDN	Rat anti-dsDNA IgG-specific ELISA Kit, 96 tests, Quantitative
670-100-DNM	Monkey Anti-dsDNA Ig's ELISA Kit, 96 tests, Quantitative
DNA11-M	Monoclonal Anti-dsDNA IgG # 1, aff pure
DNAD15-AS	dsDNA-cellulose (affinity support) (for removing autoantibodies to dsDNA or DNA-binding proteins)
DNAD25-N-1	Purified Native dsDNA, Calf Thymus, ELISA/Antigen grade
DNAS35-N-1	Purified Native dsDNA, Calf Thymus, ELISA/Antigen grade

DNAS25-AS

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