Tissue-specific Chromosomal Non-histone Protein Interactions with DNA*

(Received for publication, September 26, 1975)

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A group of chromosomal non-histone proteins with affinity for DNA (NP) was isolated from rat liver and Novikoff hepatoma. This fraction, which represents less than 5% of the total chromatin protein content, binds preferentially to unique, double stranded sequences of fractionated homologous DNA. The interactions are strong at low ionic strength $(K_n = 6.7 \times 10^{-8} \text{ M})$ and decrease with rising salt concentration. Complexes of the NP protein fraction with homologous DNA are immunologically tissue-specific. As determined by microcomplement fixation, the NP proteins in Novikoff hepatoma are associated with the transcriptionally active, diffuse fraction of chromatin.

Chromosomal non-histone proteins exhibit beterogeneity and tissue specificity which is expected of proteins involved in gene regulatory capacity. Evidence has accumulated in the literature linking changes of chromosomal protein turnover, phosphorylation, specificity, and other properties to the stimulation of genetic transcription by hormones, mitogens, carcinogens, etc. Chromosomal non-histone proteins which can bind to DNA were described by several investigators (1-8). Considerable differences in the DNA binding properties and beterogeneity of these proteins reported in the literature indicate that there may be a family of proteins in the nucleus which can bind to the DNA with a variable degree of specificity. Wakabayashi et al. (7, 9, 10) and Chiu et al. (8) reported a group of non-histone proteins capable of forming complexes with homologous DNA which were tissue specific by immunological criteria. In this paper, we described some additional properties of the DNA-binding chromosomal proteins of rat liver and New ileast begantonia.

MATERIALS AND METHODS

Isolation of DNA-binding Proteins—The fractionation scheme developed in our laboratory (8) was followed. This achieves is based on the solubility properties of chromosommal proteins in 5 m ures at three different pH values and salt concentrations. The first extraction is performed at relatively low ionic stempth at pH 7.6 and it removes the

chromatin. The second extraction at high icesic strength and relatively low pH (5.0) takens the advantage of the solubility of histories under these conditions. The DNA binding non-histone proteins are possily soluble at this pH, which is near their isosiectric point, and remain with the residual chromatin pellet. They can be solubilized by increasing the pH to 8.0 in the final extraction step.

Briefly, isolated not liver or Noviked hepateesa chromatin (11) was gently homogenized in 5.0 in ures containing 50 mas sodium phosphate

bulk of proteins which are not firmly associated with DNA in

gently homogenized in 5.0 m ures containing 50 mas codium phosphate buffer, pH 7.6. After stirring for 2 to 3 hours, the minture was centrifuged at 20,000 × g for 30 min, and the pellets were extracted once more in the same manner. The combined supernatures contained the bufk of chromosomal non-histone proteins. Histones were removed from the remaining pellets by resuspending them gently in 5.0 m urea/2.5 m NaCL/50 mas sodium succinate buffer, pH 5.0 and centrifuging the viscous solutions at 120,000 × g for 30 hours. DNA and associated non-histone proteins pelleted, while histones and small amounts of other proteins remained in the supernature. Finally, the DNA-histoling protein fraction was recovered by dissociation in 5.0 m urea/2.5 m NaCL/50 mm Tris-HCl buffer, pH 8.0 and centrifugation at 180,000 × g for 48 hours. The NF protein-centaining supernaturats were pooled, concentrated by ultrafiltration (Amicon US6-2 membrane), and used in the described experiments.

DNA Protein-binding Studies—DNA was isolated according to the modified procedure of Marmur (12, 13) and iodinated with carrier-free ""I using the method of Commerford (14). The chloramine-T technique described by Sonoda and Schlamowitz (15) was used for the iodination of NP proteins.

The binding affinity of NP proteins to unfragmented DNA was studied by reconstituting ""I-indinated NP fraction to DNA and separating free labeled protein from the NP-DNA complex by sucrose

This work was supported by National Cancer Institute Contract NOt-CP-43270.

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[&]quot;The abbreviations used are: NP, DNA-binding chromosomal non-histome protein fraction; UP, chromosomal non-histome proteins soluble in urea at low ionic strength; HP, histones; SSC, 0.15 M NaCl/0.015 M sodium citrate; $C_{\omega}t$, concentration (molesyliter) × time (5).

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I. Bekhor Isaac

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