

LNCap Cell Nuclear Extract

Catalog Number: AG1017-200
Unit Size: 200ug

Description LNCap cells are a cell line of human cells commonly used in the field of oncology. LNCap cells are androgen-sensitive human prostate adenocarcinoma cells derived from the left supraclavicular lymph node metastasis. They are adherent epithelial cells growing in aggregates and as single cells. The malignant properties of LNCap cells are maintained in the cell culture. The cells present a hormonally responsive model of cancer. High-affinity specific androgen receptors are present in the cytosol and nuclear fractions of cells in culture and in tumors. Estrogen receptors are found in the cytosol. The cell line expresses Prostate Specific Antigen.

Source *Mammalian cell*

Protein Concentration ≥6mg/ml

Biological Activity The LNCap cell nuclear extract was prepared as described by Dignam et al (1) and Manley et al (2), and is ideal for in vitro transcription, splicing, protein-protein interactions and other related function assays.

Formulation 20mM Tris-Cl (pH7.9), 100mM KCl, 20% Glycerol, 1mM DTT and 0.5mM EDTA.

Storage and Handling The extract should be stored at -80°C and defrosted immediately before use. It can be stored at -80°C for up to 12 months without detectable loss of activity. Always avoid repeated freeze-thaw cycles.

References
1. Dignam, J.D., et al., (1983) Nucleic Acids Res. 11, 1475-1489
2. Manley, J.L., et al., (1980) Proc. Natl. Acad. Sci. USA 77, 5706-5710

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