

NIH/3T3 Cell Nuclear Extract

Catalog Number: AG1018-200
Unit Size: 200ug

Description A very widely used mouse fibroblast cell line, 3T3 cells have been derived from different mouse strains. The NIH strain was established at the National Institutes of Health in the United States from a Swiss mouse embryo. The spontaneously immortalized cells with stable growth rate were established after 20-30 generations. These cells are highly contact inhibited and are sensitive to sarcoma virus focus formation and leukemia virus propagation. The established NIH/3T3 line was subjected to more than 5 serial cycles of subcloning in order to develop a subclone with morphologic characteristics best suited for transformation assays. It is used for DNA transfection studies.

Source *Mammalian cell*

Protein Concentration ≥6mg/ml

Biological Activity The NIH/3T3 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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