

MCF-7 Cell Nuclear Extract

Catalog Number: AG1014-200
Unit Size: 200ug

Description MCF-7 is a well-characterized estrogen receptor (ER) positive control cell line (cells are positive for cytoplasmic estrogen receptors) and therefore is a useful *in vitro* model of breast cancer to study the role of estrogen in breast cancer. Cells are also positive for cytokeratin and negative for desmin, endothelin, GFAP, neurofilament, and vimentin. MCF-7 is also used as a model system for the study of apoptosis in metastatic cancers.

Source *Mammalian cell*

Protein Concentration ≥6mg/ml

Biological Activity The MCF-7 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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