

## Human MCF-7 Cell Nuclear Extract

**Cat. No.** MCF-7-027HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Ready-to-use nuclear extracts are derived from cell lines or tissues using highly refined extraction protocols to ensure exceptionally high quality, protein integrity and lot-to-lot reproducibility. All extracts are tested by SDS-PAGE using 4-20% gradient gels and immunoblot analysis using antibodies to key cell signaling components to confirm the presence of both high molecular weight and low molecular weight proteins.

#### Species

Human

#### Form

Liquid (sterile filtered)

#### Specificity

The cells were grown in EMEM supplemented with 10% FBS (Fetal Bovine Serum). Cells were washed in PBS and incubated on ice in modified RIPA buffer to lyse the cells. Protein integrity is ensured using a cocktail of protease inhibitors with broad specificity for the inhibition of aspartic, cysteine, and serine proteases as well as aminopeptidases (0.1 mM AEBSF HCl, 0.08  $\mu$ M Aprotinin, 5  $\mu$ M Bestatin, 1.5  $\mu$ M E-64, 2  $\mu$ M Leupeptin Hemisulfate and 1  $\mu$ M Pepstatin A). Phosphatase inhibitors sodium fluoride, sodium orthovanadate, sodium pyrophosphate and glycerophosphate were also added. Cell debris was removed by centrifugation. Protein concentration was determined by Lowry assay using a commercially available kit. The protein concentration was adjusted to 2 mg/mL and then an equal volume of 2 $\times$  SDS-PAGE sample buffer was added.

#### Cell Line

MCF7 - Human Epithelial (Mammary)

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|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Lysate Fractionation</b> | Nuclear Extract                                                                                                |
| <b>Lysate Stimulation</b>   | Not Stimulated                                                                                                 |
| <b>Culture Type</b>         | Tissue Culture                                                                                                 |
| <b>Induction</b>            | None (Control)                                                                                                 |
| <b>Concentration</b>        | 1.0 mg/mL by BCA assay                                                                                         |
| <b>Buffer</b>               | 1× SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)         |
| <b>Preservative</b>         | None                                                                                                           |
| <b>Stabilizer</b>           | 10% (v/v) Glycerol                                                                                             |
| <b>Shipping</b>             | Dry Ice                                                                                                        |
| <b>Storage</b>              | Store vial at -70 centigrade or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles. |
| <b>Expiration</b>           | Expiration date is three months from date of receipt.                                                          |

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