

# U2OS Cell Nuclear Extract

**Catalog Number:** AG1020-200  
**Unit Size:** 200ug

**Description** The human osteosarcoma U2OS cell line was one of the first generated cell lines and is used in various areas of biomedical research. U2OS, originally known as the 2T line, was cultivated from a moderately differentiated sarcoma of the bone tissue. Cell line U2OS is chromosomally highly altered, with chromosome counts in the hypertriploid range. Very few normal chromosomes are present, but a high number of stable marker chromosomes are identified. U2OS cells exhibit epithelial adherent morphology. Cells are positive for insulin-like growth factor I (IGF-I) and insulin-like growth factor II (IGF-II) receptors, and express a number of antigens. The proteins of the U2OS cell line were analyzed using proteomics technology, and 237 different gene products were identified. The U2OS 2-D Electrophoresis database that includes 3,000 individual spots analyzed provides the basis for future protein studies.

**Source** *Mammalian cell*

**Protein Concentration**  $\geq 6\text{mg/ml}$

**Biological Activity** The U2OS 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  $-80^{\circ}\text{C}$  and defrosted immediately before use. It can be stored at  $-80^{\circ}\text{C}$  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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