

HEK293 Cell Nuclear Extract

Catalog Number: AG1011-200: 200ug/vial
Unit Size: AG1011-500: 500ug/vial

Description Human Embryonic Kidney (HEK) 293 cells were originally derived from human embryonic kidney and grown in tissue culture. The cells allow for episomal replication of transfected plasmids and can be used for amplification of the plasmids and expression of the desired gene products. Since HEK cells express a number of adenoviral genes, they can be used to propagate adenoviral vectors in which these genes are deleted. HEK293 cells have been widely used in cell biology research for many years and have demonstrated to be a useful cell type to produce adenovirus, other viral vectors, and effectively glycosylated human recombinant proteins. They are also used by the biotechnology industry to produce therapeutic proteins and viruses for gene therapy.

Source *Mammalian cell*

Protein Concentration ≥6mg/ml

Biological Activity The HEK293 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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