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Mammalian Cell & Tissue Extraction Kit

(Catalog #K269-500: 500 assays: Store at -20°C)

I. Introduction:

The Mammalian Cell & Tissue Extraction Kit provides optimized cell extraction buffer, protease inhibitor cocktail, and DTT for convenient extraction of mammalian proteins from cultured cells and tissue samples, under nondenaturing conditions. Cell lysate prepared using the kit can be used in a variety of applications, such as enzyme activity assays (e.g., caspase activity assays), Western blot analysis, and others. The entire procedure takes less than 20 minutes.

II. Kit Contents:

	K269-500		
Component	500 assays	Color Code	Part Number
Extraction Buffer	100 ml	NM	K269-500-1
Protease Inhibitor Cocktail	1 vial	Red	K269-500-2
DTT (1 M)	110 µl	Blue	K269-500-3

III. General Consideration and Reagent Preparation:

- After opening the kit, store the Cell Extraction Buffer at +4°C. Store Protease Inhibitor Cocktail and DTT at -20°C.
- The Protease Inhibitor Cocktail is provided as lyophilized form. To reconstitute, add 100 μl DMSO to the vial, pipet several times to dissolve all powder (This makes 500X concentrated Protease Inhibitor Cocktail).
- 3. Before use, add 2 µl of DTT and 2 µl of Protease Inhibitor Cocktail to 1 ml of Cell Extraction Buffer (The mixture is referred as Extraction Buffer Mix).
- 4. Be sure to keep the Extraction Buffer Mix on ice at all times during the experiment.
- 5. The following protocol is described for extraction of $\sim 2 \times 10^6$ cells and should generate ~ 100 300 µg of cell lysate. If large amount of cell lysate are desired, scale up the volumes proportionally.

IV. Mammalian Protein Extraction Protocol:

- 1. Collect cells by centrifugation at 600 x g for 5 min at 4°C.
 - Note: For adherent cells, scrape cells into PBS and spin down to pellet cells.
- 2. Resuspend cells in 100 μ l of the Extraction Buffer Mix. Pipet up and down several times.
 - **Note:** For tissue samples, homogenize tissues in 2 3 volume of the Extraction Buffer Mix, until it is completed lysed.
- 3. Incubate on ice for 10 min, then vertex for 5 sec.
- 4. Centrifuge in a microcentrifuge at top speed for 3 min.
- 5. Collect the supernatant (Cell Lysate) and discard the pellet.
- 6. Store cell lysate at -70°C for further studies.

FOR RESEARCH USE ONLY! Not to be used in humans.

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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