

## Human U-937 Whole Cell Lysate

**Cat. No.** U-937-063HCL    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b>     | Multi-purpose Whole Cell Lysates are derived from cell lines 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>                 | Liquid (sterile filtered)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Specificity</b>          | U-937 cells were grown in RPMI-1640 medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer to lyse the cells. Protein integrity was 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 µM Aprotinin, 5 µM Bestatin, 1.5 µM E-64, 2 µM Leupeptin Hemisulfate, 1 µM Pepstatin A). Phosphatase inhibitors 1 mM NaF and 1 mM Na <sub>3</sub> VO <sub>4</sub> were also added. Cell debris was removed by centrifugation. Protein concentration was determined by a modified Lowry assay using a commercially available kit. Protein concentration was adjusted to 4 mg/mL with 1× RIPA buffer. |
| <b>Applications</b>         | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cell Line</b>            | Human - Pleural Effusion, Lymphocyte, Myeloid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Lysate Fractionation</b> | Whole Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|---------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Lysate Stimulation</b> | Not Stimulated                                                                                               |
| <b>Culture Type</b>       | Tissue Culture                                                                                               |
| <b>Induction</b>          | None (Control)                                                                                               |
| <b>Concentration</b>      | 4.0 mg/mL by BCA assay                                                                                       |
| <b>Buffer</b>             | 1× RIPA Buffer with HALT Protease and Phosphatase Inhibitors                                                 |
| <b>Preservative</b>       | None                                                                                                         |
| <b>Stabilizer</b>         | None                                                                                                         |
| <b>Shipping</b>           | Dry Ice                                                                                                      |
| <b>Storage</b>            | Store vial at -70 centigrade or COLDER. For extended storage, aliquot lysate to minimize freeze/thaw cycles. |
| <b>Expiration</b>         | Expiration date is three months from date of receipt.                                                        |

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