

## HL60 Lysate

**Catalog No.:** AL00009PU-N

**Quantity:** 0.5 mg

**Concentration:** 2mg/ml

**Background:** HL-60 cells are used as an in vitro model of acute promyelocytic leukaemia and for differentiation and apoptosis studies. The HL60 cell line was established in 1977 from a patient with acute myeloid leukaemia. The cells largely resemble promyelocytes but can be induced to differentiate terminally in vitro. Some reagents cause HL60 cells to differentiate to granulocyte-like cells, others to monocyte/macrophage-like cells. The HL60 cell genome contains an amplified c-myc proto-oncogene; c-myc mRNA levels are correspondingly high in undifferentiated cells but decline rapidly following induction of differentiation.

**Format:** **State:** Liquid

**Purity:** HL60 lysate was prepared by homogenization in modified RIPA buffer (150 mM sodium chloride, 50 mM Tris-HCl, pH 7.4, 1 mM ethylenediaminetetraacetic acid, 1 mM phenylmethylsulfonyl fluoride, 1% Triton X-100, 1% sodium deoxycholic acid, 0.1% sodium dodecylsulfate, 5 ug/ml of aprotinin, 5 ug/ml of leupeptin.) Cell debris was removed by centrifugation. The HL60 lysate was boiled for 5 min in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% beta-mercaptoethanol.

**Applications:** Western Blot - 10µg to 20µg per lane is recommended for mini gels. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Description:** HL60 cell total protein lysate

**Storage:** Store at 2-8°C for continuous use or (in aliquots) at -70°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: 6 month from despatch.