# Recombinant human MLF1 protein

Catalog Number: ATGP0906

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-268aa

**UniProt No.**
P58340

**NCBI Accession No.**
NP_071888

**Alternative Names**
Myeloid leukemia factor 1

## PRODUCT SPECIFICATION

**Molecular Weight**
32.7 kDa (288aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration**
0.5mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 5mM DTT, 200mM NaCl

**Purity**
> 85% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
MLF1 (Myeloid leukemia factor 1) belongs to MLF family, and is a widely expressed negative regulator of cell cycle progression functioning upstream of the tumor suppressor p53. This protein interferes with erythropoietin-induced erythroid terminal differentiation by preventing cells from exiting the cell cycle through suppression of CDKN1B/p27Kip1 levels. MLF1 normally functions in multi-potent progenitor cells, and its dysregulation may be somewhat responsible for leukemogenesis. Recombinant human MLF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

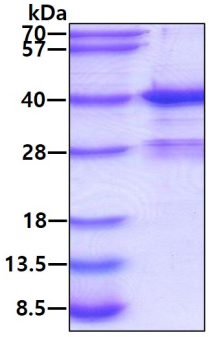
<MGSSHHHHHH SSGLVPRGSH> MFRMLNSSFE DDPFFSESIL AHRENMRQMI RSFSEPFGRD LLSISDGRGR AHNRRGHNDG EDSLTHTDVS SFQTMDQMVS NMRNYMQKLE RNFGQLSVDP NGHSFCSSSV MTYSKIGDEP PKVFQASTQT RRAPGGIKET RKAMRDSDSG LEKMAIGHHI HDRAHVIKKS KNKKTGDEEV NQEFINMNES DAHAFDEEWQ SEVLKYKPGR HNLGNTRMRS VGHENPGSRE LKRREKPQQS PAIEHGRRSN VLGDKLHIKG SSVKSNKK

### General References

Yoneda-Kato N., et al. (2005) EMBO J. 24:1739-1749
Winteringham L.N., et al (2004) Oncogene 23: 5105-5109

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.