

## MLF1 Human

**Description:** MLF1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 288 amino acids (1-268 a.a.) and having a molecular mass of 32.8kDa (Molecular weight on SDS-PAGE will appear higher). The MLF1 is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-107

For research use only.

**Synonyms:** Myeloid leukemia factor 1, Myelodysplasia-myeloid leukemia factor 1, MLF1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MFRMLNSSFE DDPFFSESIL  
AHRENMRQMI RSFSEPFGRD LLSISDGRGR AHNRRGHNDG EDSLTHTDVS SFQTMQMV  
NMRNYMQKLE RNFGQLSDP NGHSFCSSSV MTYSKIGDEP PKVFQASTQT RRAPGGIKET  
RKAMRDSG LEKMAIGHHI HDRAHVIKKS KNKKTGDEEV NQEFINMNES DAHAFDEEWQ  
SEVLKYKPGR HN

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

### Formulation:

The MLF1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 5mM DTT and 200mM NaCl.

### Stability:

MLF1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Myeloid leukemia factor 1 (MLF1) is a member of the MLF family, and is a widely expressed negative regulator of cell cycle progression functioning upstream of the tumor suppressor p53. MLF1 hinders the erythropoietin-induced erythroid terminal differentiation by averting cells from exiting the cell cycle through suppression of CDKN1B/p27Kip1 levels. MLF1 generally functions in multi-potent progenitor cells, and its dysregulation may be to some extent responsible for leukemogenesis. Translocations between the MLF1 gene and nucleophosmin are linked to myelodysplastic syndrome and acute myeloid leukemia.

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