

MLF1 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP21309b

Specification**MLF1 Blocking Peptide (C-term) - Product Information**Primary Accession [P58340](#)**MLF1 Blocking Peptide (C-term) - Additional Information****Gene ID** 4291**Other Names**Myeloid leukemia factor 1,
Myelodysplasia-myeloid leukemia factor 1,
MLF1**Target/Specificity**

The synthetic peptide sequence is selected from aa 232-246 of HUMAN MLF1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MLF1 Blocking Peptide (C-term) - Protein Information**Name** MLF1**Function**

Involved in lineage commitment of primary hemopoietic progenitors by restricting erythroid formation and enhancing myeloid formation. Interferes with erythropoietin-induced erythroid terminal

MLF1 Blocking Peptide (C-term) - Background

Involved in lineage commitment of primary hemopoietic progenitors by restricting erythroid formation and enhancing myeloid formation. Interferes with erythropoietin-induced erythroid terminal differentiation by preventing cells from exiting the cell cycle through suppression of CDKN1B/p27Kip1 levels. Suppresses RFWD2/COP1 activity via CSN3 which activates p53 and induces cell cycle arrest. Binds DNA and affects the expression of a number of genes so may function as a transcription factor in the nucleus.

MLF1 Blocking Peptide (C-term) - References

Yoneda-Kato N., et al. Oncogene 12:265-275(1996).
Feng X., et al. Submitted (DEC-2004) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Muzny D.M., et al. Nature 440:1194-1198(2006).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

differentiation by preventing cells from exiting the cell cycle through suppression of CDKN1B/p27Kip1 levels. Suppresses COP1 activity via CSN3 which activates p53 and induces cell cycle arrest. Binds DNA and affects the expression of a number of genes so may function as a transcription factor in the nucleus.

Cellular Location

Cytoplasm

{ECO:0000250|UniProtKB:Q9QWV4}.

Nucleus

{ECO:0000250|UniProtKB:Q9QWV4}. Cell projection, cilium

{ECO:0000250|UniProtKB:Q9QWV4}.

Cytoplasm, cytoskeleton, cilium basal body

{ECO:0000250|UniProtKB:Q9QWV4}.

Note=Shuttles between the cytoplasm and nucleus.

{ECO:0000250|UniProtKB:Q9QWV4}

Tissue Location

Most abundant in testis, ovary, skeletal muscle, heart, kidney and colon. Low expression in spleen, thymus and peripheral blood leukocytes

**MLF1 Blocking Peptide (C-term) -
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)