# MLX Peptide - N-Terminal Region Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | MLX, Blocking Peptide |
| **Full Product Name** | MLX Peptide - N-terminal region |
| **Product Gene Name** | MLX blocking peptide |
| **Product Synonym Gene Name** | MAD7; MXD7; TCFL4; bHLHd13 |
| **Form/Format** | Lyophilized powder |
| **Preparation and Storage** | Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | MLX peptide (MBS3226532) is used for blocking the activity of MLX antibody (MBS3201520) |
| **Molecular Weight** | 33kDa |
| **OMIM** | 602976 |
| **Product Categories/Family for MLX blocking peptide** | Peptide |
| **Applications Tested/Suitable for MLX blocking peptide** | Western Blot (WB) |
| **Related Product Information for MLX blocking peptide** | This is a synthetic peptide designed for use in combination with anti-MLX antibody made<br><br>Target Description: MLX belongs to the family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors. These factors form heterodimers with Mad proteins and play a role in proliferation, determination and differentiation. MLX may act to diversify Mad family function by its restricted association with a subset of the Mad family of transcriptional repressors, namely, Mad1 and Mad4. The product of this gene belongs to the family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors. These factors form heterodimers with Mad proteins and play a role in proliferation, determination and differentiation. This gene product may act to diversify Mad family function by its restricted association with a subset of the Mad family of transcriptional repressors, namely, Mad1 and Mad4. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. |
| **Other Notes** | Small volumes of MLX blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for MLX purchase** | MBS3226532 is a blocking peptide targeting MLX. Also known as MLX Peptide - N-terminal region. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MLX. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 24586667 |
| **NCBI GeneID** | 6945 |
| **NCBI Accession #** | NP_733752 |
| **UniProt Primary Accession #** | Q9UH92 |
| **UniProt Related Accession #** | Q9UH92 |
| **GenBank Nucleotide #** | NM_170607 |
| **NCBI Official Full Name** | max-like protein X isoform gamma |

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| **NCBI Official Synonym Full Names** | MAX dimerization protein MLX |
| **NCBI Official Symbol** | MLX |
| **NCBI Official Synonym Symbols** | TF4; MAD7; MXD7; TCFL4; bHLHd13 |
| **UniProt Protein Name** | Max-like protein X |
| **UniProt Synonym Protein Names** | Class D basic helix-loop-helix protein 13; bHLHd13; Max-like bHLHZip protein; Protein BigMax; Transcription factor-like protein 4 |
| **Protein Family** | Max-like protein |
| **UniProt Gene Name** | MLX |
| **UniProt Synonym Gene Names** | BHLHD13; TCFL4; bHLHd13 |
| **UniProt Entry Name** | MLX_HUMAN |
| **NCBI Protein Information** | max-like protein X |
| **NCBI Summary for MLX** | The product of this gene belongs to the family of basic helix-loop-helix leucine zipper (bHLH-Zip) transcription factors. These factors form heterodimers with Mad proteins and play a role in proliferation, determination and differentiation. This gene product may act to diversify Mad family function by its restricted association with a subset of the Mad family of transcriptional repressors, namely, Mad1 and Mad4. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for MLX** | MLX: Transcription regulator. Forms a sequence-specific DNA- binding protein complex with MAD1, MAD4, MNT, WBSCR14 and MLXIP which recognizes the core sequence 5'-CACGTG-3'. The TCFL4-MAD1, TCFL4-MAD4, TCFL4-WBSCR14 complexes are transcriptional repressors. Plays a role in transcriptional activation of glycolytic target genes. Involved in glucose-responsive gene regulation. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Transcription factor; DNA-binding<br><br>Chromosomal Location of Human Ortholog: 17q21.1<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; transcription factor activity; transcription factor binding<br><br>Biological Process: transcription, DNA-dependent; regulation of transcription, DNA-dependent; energy reserve metabolic process; positive regulation of cellular metabolic process; nucleocytoplasmic transport; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent |
| **Research Articles on MLX** | **1.** MYC is part of a network of bHLHLZ proteins centered on the MYC heterodimeric partner MAX and its counterpart, the MAX-like protein MLX. |
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