MCL1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	MCL1, Blocking Peptide
Full Product Name	MCL1 Blocking Peptide
Product Gene Name	MCL1 blocking peptide
Product Synonym Names	Bcl 2 related protein EAT/mcl1; Bcl-2-like protein 3; Bcl-2-related protein EAT/mcl1; BCL2 related; Bcl2-L-3; BCL2L3; EAT; Induced myeloid leukemia cell differentiation protein Mcl 1; Induced myeloid leukemia cell differentiation protein Mcl-1; MCL 1; MCL1; MCL1-ES; mcl1/EAT; MCL1_HUMAN; MCL1L; MCL1S; MGC104264; MGC1839; Myeloid Cell Leukemia 1; Myeloid cell leukemia ES; Myeloid cell leukemia sequence 1; Myeloid cell leukemia sequence 1 BCL2 related; Myeloid cell leukemia sequence 1 isoform 1; OTTHUMP00000032794; OTTHUMP00000032795; TM
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MCL1 peptide (MBS9617015) is used for blocking the activity of MCL1 antibody (MBS9601483)
Molecular Weight	37,337 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (150547027..150552214, complement). Location: 1q21
OMIM	159552
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for MCL1 blocking peptide	Blocking/Control
Related Product Information for MCL1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of MCL1 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 MCL1 purchase	MBS9617015 is a blocking peptide targeting MCL1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCL1. It may not necessarily be applicable to this product.

NCBI GI #	309747067
NCBI GeneID	4170

NCBI Accession #	NP_001184249.1
UniProt Primary Accession #	Q07820
UniProt Secondary Accession #	Q9HD91; Q9NRQ3; Q9NRQ4; Q9UHR7; Q9UHR8; Q9UHR9; Q9UNJ1; B2R6B2; D3DV03; D3DV04
UniProt Related Accession #	Q07820
GenBank Nucleotide #	NM_001197320.1
NCBI Official Full Name	induced myeloid leukemia cell differentiation protein Mcl-1 isoform 3
NCBI Official Synonym Full Names	myeloid cell leukemia sequence 1 (BCL2-related)
NCBI Official Symbol	MCL1
NCBI Official Synonym Symbols	TM; EAT; MCL1L; MCL1S; Mcl-1; BCL2L3; MCL1-ES; bcl2-L-3; mcl1/EAT
UniProt Protein Name	Induced myeloid leukemia cell differentiation protein Mcl-1
UniProt Synonym Protein Names	Bcl-2-like protein 3; Bcl2-L-3; Bcl-2-related protein EAT/mcl1; mcl1/EAT
Protein Family	Induced myeloid leukemia cell differentiation protein
UniProt Gene Name	MCL1
UniProt Synonym Gene Names	BCL2L3; Bcl2-L-3
UniProt Entry Name	MCL1_HUMAN
NCBI Protein Information	induced myeloid leukemia cell differentiation protein Mcl-1; bcl-2-like protein 3; myeloid cell leukemia ES; bcl-2-related protein EAT/mcl1
NCBI Summary for MCL1	This gene encodes an anti-apoptotic protein, which is a member of the Bcl-2 family. Alternative splicing results in multiple transcript variants. The longest gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene products (isoform 2 and isoform 3) promote apoptosis and are death-inducing. [provided by RefSeq, Oct 2010]
UniProt Comments for MCL1	MCL1: a myeloid cell leukemia protein of the Bcl-2 family of proteins. Two alternatively spliced transcripts encoding distinct isoforms have been identified. The longer gene product (isoform 1) enhances cell survival by inhibiting apoptosis while the alternatively spliced shorter gene product (isoform 2) promotes apoptosis and is death-inducing. Protein type: Membrane protein, integral; Mitochondrial; Channel, misc.; Inhibitor; Apoptosis Chromosomal Location of Human Ortholog: 1q21 Cellular Component: nucleoplasm; mitochondrial outer membrane; mitochondrion; membrane; mitochondrial matrix; cytoplasm; integral to membrane; cytosol; nucleus Molecular Function: protein binding; protein homodimerization activity; protein heterodimerization activity; protein channel activity; BH3 domain binding Biological Process: apoptotic mitochondrial changes; DNA damage response, signal transduction resulting in induction of apoptosis; response to cytokine stimulus; multicellular organismal development; cellular homeostasis; cell fate determination
Research Articles on MCL1	**1.** It possesses an ability to downregulate the antiapoptotic Mcl-1 protein.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/mcl1/9617015