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

PRODUCT OVERVIEW

Product Name	Cytochrome c (CYCS), Blocking Peptide
Full Product Name	Cytochrome C Blocking Peptide
Product Gene Name	CYCS blocking peptide
Product Synonym Names	CYC; CYC_HUMAN; CYCS; Cytochrome c; Cytochrome c somatic; HCS; THC4
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	Cytochrome C peptide (MBS9614636) is used for blocking the activity of Cytochrome C antibody (MBS9600084)
Molecular Weight	11,749 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (25158270..25164980, complement). Location: 7p15.3
OMIM	123970
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 CYCS blocking peptide	Blocking/Control
Related Product Information for CYCS 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 CYCS 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 CYCS purchase	MBS9614636 is a blocking peptide targeting CYCS. Also known as Cytochrome C Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	11128019
NCBI GeneID	54205
NCBI Accession #	NP_061820.1
UniProt Primary Accession #	P99999
UniProt Secondary Accession #	P00001; Q6NUR2; Q6NX69; Q96BV4; A4D166; B2R4I1

UniProt Related Accession #	P99999
GenBank Nucleotide #	NM_018947.5
NCBI Official Full Name	cytochrome c
NCBI Official Synonym Full Names	cytochrome c, somatic
NCBI Official Symbol	CYCS
NCBI Official Synonym Symbols	CYC; HCS; THC4
UniProt Protein Name	Cytochrome c
Protein Family	Cytochrome
UniProt Gene Name	CYCS
UniProt Synonym Gene Names	CYC
UniProt Entry Name	CYC_HUMAN
NCBI Protein Information	cytochrome c
NCBI Summary for CYCS	This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.[provided by RefSeq, Jul 2010]
UniProt Comments for CYCS	CYCS: Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain. Belongs to the cytochrome c family. Protein type: Protein phosphatase, Ser/Thr (non-receptor); Oxidoreductase; Mitochondrial; Apoptosis Chromosomal Location of Human Ortholog: 7p15.3 Cellular Component: protein phosphatase type 2A complex; mitochondrion; mitochondrial inner membrane; mitochondrial intermembrane space; nucleus; cytosol Molecular Function: electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity; protein binding; iron ion binding; heme binding; protein serine/threonine phosphatase activity Biological Process: mitochondrion organization and biogenesis; cellular metabolic process; response to reactive oxygen species; dephosphorylation; apoptosis; organelle organization and biogenesis; cellular respiration; mitochondrial electron transport, cytochrome c to oxygen; DNA fragmentation during apoptosis; caspase activation via cytochrome c; transmembrane transport; mitochondrial electron transport, ubiquinol to cytochrome c Disease: Thrombocytopenia 4
Research Articles on CYCS	**1.** structural characterization of cytochrome c in micelle
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