CISD1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CISD1, Blocking Peptide
Full Product Name	CISD1 Peptide - C-terminal region
Product Gene Name	CISD1 blocking peptide
Product Synonym Gene Name	C10orf70; MDS029; MGC14684; ZCD1; mitoNEET
Sequence	PKIVHAFDME DLGDKAVYCR CWRSKKFPFC DGAHTKHNEE TGDNVGPLII
Species Reactivity	Human
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	CISD1 peptide (MBS3241749) is used for blocking the activity of CISD1 antibody (MBS3216850)
Molecular Weight	12kDa
OMIM	611932
Product Categories/Family for CISD1 blocking peptide	Peptide
Applications Tested/Suitable for CISD1 blocking peptide	Western Blot (WB)
Related Product Information for CISD1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CISD1 Antibody, made Target Description: This gene encodes a protein with a CDGSH iron-sulfur domain and has been shown to bind a redox-active [2Fe-2S] cluster. The encoded protein has been localized to the outer membrane of mitochondria and is thought to play a role in regulation of oxidation. Genes encoding similar proteins are located on chromosomes 4 and 17, and a pseudogene of this gene is located on chromosome 2.
Other Notes	Small volumes of CISD1 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 CISD1 purchase	MBS3241749 is a blocking peptide targeting CISD1. Also known as CISD1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CISD1. It may not necessarily be applicable to this product.

NCBI GI #	8923930
NCBI GeneID	55847
NCBI Accession #	NP_060934
UniProt Primary Accession #	Q9NZ45
UniProt Related Accession #	Q9NZ45
GenBank Nucleotide #	NM_018464
NCBI Official Full Name	CDGSH iron-sulfur domain-containing protein 1

NCBI Official Synonym Full Names	CDGSH iron sulfur domain 1
NCBI Official Symbol	CISD1
NCBI Official Synonym Symbols	ZCD1; MDS029; C10orf70; mitoNEET
UniProt Protein Name	CDGSH iron-sulfur domain-containing protein 1
UniProt Synonym Protein Names	MitoNEET
Protein Family	CDGSH iron-sulfur domain-containing protein
UniProt Gene Name	CISD1
UniProt Synonym Gene Names	C10orf70; ZCD1
UniProt Entry Name	CISD1_HUMAN
NCBI Protein Information	CDGSH iron-sulfur domain-containing protein 1
NCBI Summary for CISD1	This gene encodes a protein with a CDGSH iron-sulfur domain and has been shown to bind a redox-active [2Fe-2S] cluster. The encoded protein has been localized to the outer membrane of mitochondria and is thought to play a role in regulation of oxidation. Genes encoding similar proteins are located on chromosomes 4 and 17, and a pseudogene of this gene is located on chromosome 2. [provided by RefSeq, Feb 2012]
UniProt Comments for CISD1	ZCD1: Plays a key role in regulating maximal capacity for electron transport and oxidative phosphorylation. May be involved in Fe-S cluster shuttling and/or in redox reactions. Belongs to the CISD protein family. Protein type: Membrane protein, integral; Mitochondrial Chromosomal Location of Human Ortholog: 10q21.1 Cellular Component: mitochondrial outer membrane; mitochondrion; integral to membrane Molecular Function: 2 iron, 2 sulfur cluster binding; metal ion binding Biological Process: regulation of cellular respiration
Research Articles on CISD1	**1.** The [2Fe-2S] clusters of mitoNEET are reduced via the formation of a transient complex that brings the [2Fe-2S] clusters of mitoNEET close to the redox-active [2Fe-2S] cluster of anamorsin.
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