COQ9 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	COQ9, Blocking Peptide
Full Product Name	COQ9 Peptide - middle region
Product Gene Name	COQ9 blocking peptide
Product Synonym Gene Name	COQ10D5; C16orf49
Sequence	Synthetic peptide located within the following region: PYIEHWPRAL SILMLPHNIP SSLSLLTSMV DDMWHYAGDQ STDFNWYTRR
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	COQ9 peptide (MBS3247028) is used for blocking the activity of COQ9 antibody (MBS3222356)
Molecular Weight	35 kDa
OMIM	612837
Product Categories/Family for COQ9 blocking peptide	Peptide
Related Product Information for COQ9 blocking peptide	This is a synthetic peptide designed for use in combination with anti- COQ9 Antibody, made Target Description: This locus represents a mitochondrial ubiquinone biosynthesis gene. The encoded protein is likely necessary for biosynthesis of coenzyme Q10, as mutations at this locus have been associated with autosomal-recessive neonatal-onset primary coenzyme Q10 deficiency.
Other Notes	Small volumes of COQ9 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 COQ9 purchase	MBS3247028 is a blocking peptide targeting COQ9. Also known as COQ9 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COQ9. It may not necessarily be applicable to this product.

NCBI GI #	40789233
NCBI GeneID	57017
NCBI Accession #	NP_064708.1
UniProt Primary Accession #	O75208
UniProt Related Accession #	O75208
GenBank Nucleotide #	NM_020312.3
NCBI Official Full Name	ubiquinone biosynthesis protein COQ9, mitochondrial
NCBI Official Synonym Full Names	coenzyme Q9

NCBI Official Symbol	COQ9
NCBI Official Synonym Symbols	COQ10D5; C16orf49
UniProt Protein Name	Ubiquinone biosynthesis protein COQ9, mitochondrial
Protein Family	Probable ubiquinone biosynthesis protein
UniProt Gene Name	COQ9
UniProt Synonym Gene Names	C16orf49
UniProt Entry Name	COQ9_HUMAN
NCBI Protein Information	ubiquinone biosynthesis protein COQ9, mitochondrial
NCBI Summary for COQ9	This locus represents a mitochondrial ubiquinone biosynthesis gene. The encoded protein is likely necessary for biosynthesis of coenzyme Q10, as mutations at this locus have been associated with autosomal-recessive neonatal-onset primary coenzyme Q10 deficiency.[provided by RefSeq, Sep 2010]
UniProt Comments for COQ9	COQ9: Involved in the biosynthesis of coenzyme Q. Defects in COQ9 are the cause of coenzyme Q10 deficiency, primary, type 5 (COQ10D5). A form of coenzyme Q10 deficiency, an autosomal recessive disorder with variable manifestations consistent with 5 major phenotypes. The phenotypes include an encephalomyopathic form with seizures and ataxia; a multisystem infantile form with encephalopathy, cardiomyopathy and renal failure; a predominantly cerebellar form with ataxia and cerebellar atrophy; Leigh syndrome with growth retardation; and an isolated myopathic form. Belongs to the COQ9 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 16q21 Cellular Component: mitochondrial inner membrane; mitochondrion Molecular Function: lipid binding; protein binding; protein homodimerization activity Biological Process: ubiquinone biosynthetic process Disease: Coenzyme Q10 Deficiency, Primary, 5
Research Articles on COQ9	**1.** Mitochondrial COQ9 is a lipid-binding protein that associates with COQ7 to enable coenzyme Q biosynthesis.
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