DHODH Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	DHODH, Blocking Peptide
Full Product Name	DHODH Peptide - middle region
Product Gene Name	DHODH blocking peptide
Product Synonym Gene Name	DHOdehase; URA1; POADS
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	DHODH peptide (MBS3231089) is used for blocking the activity of DHODH antibody (MBS3206126)
Molecular Weight	42kDa
OMIM	126064
Product Categories/Family for DHODH blocking peptide	Peptide
Applications Tested/Suitable for DHODH blocking peptide	Western Blot (WB)
Related Product Information for DHODH blocking peptide	This is a synthetic peptide designed for use in combination with anti-DHODH antibody made Target Description: DHODH catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. It is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane.The protein encoded by this gene catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of DHODH 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 DHODH purchase	MBS3231089 is a blocking peptide targeting DHODH. Also known as DHODH Peptide - middle region.

ADDITIONAL DETAILS

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

NCBI GI #	45006951
NCBI GeneID	1723
NCBI Accession #	NP_001352
UniProt Primary Accession #	Q02127
UniProt Related Accession #	Q02127
GenBank Nucleotide #	NM_001361
NCBI Official Full Name	dihydroorotate dehydrogenase (quinone), mitochondrial

NCBI Official Synonym Full Names	dihydroorotate dehydrogenase (quinone)
NCBI Official Symbol	DHODH
NCBI Official Synonym Symbols	URA1; POADS; DHOdehase
UniProt Protein Name	Dihydroorotate dehydrogenase (quinone), mitochondrial
UniProt Synonym Protein Names	Dihydroorotate oxidase
UniProt Gene Name	DHODH
UniProt Synonym Gene Names	DHOdehase
UniProt Entry Name	PYRD_HUMAN
NCBI Protein Information	dihydroorotate dehydrogenase (quinone), mitochondrial
NCBI Summary for DHODH	The protein encoded by this gene catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane. [provided by RefSeq, Jul 2008]
UniProt Comments for DHODH	DHODH: Catalyzes the conversion of dihydroorotate to orotate with quinone as electron acceptor. Defects in DHODH are the cause of postaxial acrofacial dysostosis (POADS); also known as Miller syndrome. POADS is characterized by severe micrognathia, cleft lip and/or palate, hypoplasia or aplasia of the posterior elements of the limbs, coloboma of the eyelids and supernumerary nipples. POADS is a very rare disorder: only 2 multiplex families, each consisting of 2 affected siblings born to unaffected, nonconsanguineous parents, have been described among a total of around 30 reported cases. Belongs to the dihydroorotate dehydrogenase family. Type 2 subfamily. Protein type: Mitochondrial; EC 1.3.5.2; Nucleotide Metabolism - pyrimidine; Oxidoreductase; Membrane protein, integral Chromosomal Location of Human Ortholog: 16q22 Cellular Component: nucleoplasm; mitochondrion; cell soma; mitochondrial inner membrane; integral to membrane; intrinsic to mitochondrial inner membrane Molecular Function: ubiquinone binding; FMN binding; dihydroorotate dehydrogenase activity; drug binding Biological Process: lactation; response to starvation; response to drug; 'de novo' pyrimidine base biosynthetic process; pyrimidine base metabolic process; nucleobase, nucleoside and nucleotide metabolic process; positive regulation of apoptosis; pyrimidine nucleoside biosynthetic process; female pregnancy; response to caffeine Disease: Postaxial Acrofacial Dysostosis
Research Articles on DHODH	**1.** This case with grossly raised plasma DHO represents the first biochemical confirmation of functional DHODH deficiency. DHO was also easily detectable in dried plasma and blood spots.
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