CRYM Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CRYM, Blocking Peptide
Full Product Name	CRYM Peptide - N-terminal region
Product Gene Name	CRYM blocking peptide
Product Synonym Gene Name	DFNA40; THBP
Sequence	ALTTKLVTFY EDRGITSVVP SHQATVLLFE PSNGTLLAVM DGNVITAKRT
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	CRYM peptide (MBS3235498) is used for blocking the activity of CRYM antibody (MBS3210543)
Molecular Weight	34kDa
OMIM	123740
Product Categories/Family for CRYM blocking peptide	Peptide
Applications Tested/Suitable for CRYM blocking peptide	Western Blot (WB)
Related Product Information for CRYM blocking peptide	This is a synthetic peptide designed for use in combination with anti-CRYM Antibody, made Target Description: Crystallins are separated into two classes: taxon-specific and ubiquitous. The former class is also called phylogenetically-restricted crystallins. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. This gene encodes a taxon-specific crystallin protein that binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. The encoded protein does not perform a structural role in lens tissue, and instead it binds thyroid hormone for possible regulatory or developmental roles. Mutations in this gene have been associated with autosomal dominant non-syndromic deafness. Multiple alternatively spliced transcript variants have been found for this gene.
Other Notes	Small volumes of CRYM 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 CRYM purchase	MBS3235498 is a blocking peptide targeting CRYM. Also known as CRYM Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	4503065
NCBI GeneID	1428
NCBI Accession #	NP_001879
UniProt Primary Accession #	Q14894
UniProt Related Accession #	Q14894

GenBank Nucleotide #	NM_001888
NCBI Official Full Name	ketimine reductase mu-crystallin
NCBI Official Synonym Full Names	crystallin mu
NCBI Official Symbol	CRYM
NCBI Official Synonym Symbols	THBP; DFNA40
UniProt Protein Name	Ketimine reductase mu-crystallin
UniProt Synonym Protein Names	NADP-regulated thyroid-hormone-binding protein
Protein Family	Ketimine reductase
UniProt Gene Name	CRYM
UniProt Synonym Gene Names	THBP
UniProt Entry Name	CRYM_HUMAN
NCBI Protein Information	ketimine reductase mu-crystallin
NCBI Summary for CRYM	Crystallins are separated into two classes: taxon-specific and ubiquitous. The former class is also called phylogenetically-restricted crystallins. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. This gene encodes a taxon-specific crystallin protein that binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. The encoded protein does not perform a structural role in lens tissue, and instead it binds thyroid hormone for possible regulatory or developmental roles. Mutations in this gene have been associated with autosomal dominant non-syndromic deafness. [provided by RefSeq, Sep 2014]
UniProt Comments for CRYM	CRYM: Specifically catalyzes the reduction of imine bonds in brain substrates that may include cystathionine ketimine (CysK) and lanthionine ketimine (LK). Binds thyroid hormone which is a strong reversible inhibitor. Presumably involved in the regulation of the free intracellular concentration of triiodothyronine and access to its nuclear receptors. Belongs to the ornithine cyclodeaminase family. Protein type: Lyase; EC 1.5.1.25 Chromosomal Location of Human Ortholog: 16p12.2 Cellular Component: mitochondrion; cytoplasm; nucleus Molecular Function: thiomorpholine-carboxylate dehydrogenase activity; protein homodimerization activity; NADP binding; transcription corepressor activity Biological Process: sensory perception of sound; negative regulation of transcription from RNA polymerase II promoter; thyroid hormone metabolic process Disease: Deafness, Autosomal Dominant 40
Research Articles on CRYM	**1.** Results suggest that mu-crystallin may play roles in development of cortical and hippocampal pyramidal cells in the early postnatal period, and in the later period, performs cell-specific functions in selected neuronal populations.
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