7-Hydroxymethyl Chlorophyll a Reductase, Chloroplastic (HCAR) Oryza Sativa Subsp. Japonica Recombinant Protein

PRODUCT OVERVIEW

Product Name	7-hydroxymethyl chlorophyll a reductase, chloroplastic (HCAR), Recombinant Protein
Full Product Name	Recombinant Oryza sativa subsp. japonica 7-hydroxymethyl chlorophyll a reductase, chloroplastic (HCAR)
Product Gene Name	HCAR recombinant protein
Product Synonym Gene Name	HCAR
Sequence	CGSIRALRED WRERSKAIPP GGVYPAKDHC SQCGLCDTYY IAHVKNACAF LGDGMSRVED LEPLVHGRGR KQDMDEMYFG VYEQLLYARK MKPVEGAQWT GIVTTIAVEM LKANMVDAVV CVQSDPDDRL APMPVLARTP DEVIAAKGVK PTLSPNLNTL ALVEAAGVKR LLFCGVGCQV QALRSVEKYL GLEKLYVLGT NCVDNGTREG LDKFLKAASS EPETVLHYEF MQDYKVHLKH LDGHIEEVPY FCLPAKDLVD VIAPSCYSCF DYTNGLADLV VGYMGVPKYP GVSMTQHPQY ITVRNDRGRE MLSLVEGLLE STPTVSSGVR QPFVIETVKA DDEAKQGRGP SQPAPTFVGN VIAFLLNLIG PKGLEFARYS LDYHTIRNYL HVNRAWGKQR AEQHIPSYAK KIVEAYDKDG RIESMLQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	51,982 Da
Sequence Positions	45-471, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q7XTG7
Species	Oryza sativa subsp. japonica (Rice)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HCAR recombinant protein	MBS1386774 is a recombinant protein targeting HCAR. Also known as Recombinant Oryza sativa subsp. japonica 7-hydroxymethyl chlorophyll a reductase, chloroplastic (HCAR). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HCAR recombinant protein 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.

ADDITIONAL DETAILS

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

NCBI GI #	1002264916
NCBI GeneID	4335472

NCBI Accession #	XP_015636785.1
UniProt Primary Accession #	Q7XTG7
UniProt Secondary Accession #	Q0JE66
GenBank Nucleotide #	XM_015781299.1
NCBI Official Full Name	7-hydroxymethyl chlorophyll a reductase, chloroplastic isoform X3
NCBI Official Symbol	LOC4335472
UniProt Protein Name	7-hydroxymethyl chlorophyll a reductase, chloroplastic
Protein Family	7-hydroxymethyl chlorophyll a reductase
UniProt Gene Name	HCAR
NCBI Protein Information	7-hydroxymethyl chlorophyll a reductase, chloroplastic
UniProt Comments for HCAR	Probable iron-sulfur flavoprotein that converts 7-hydroxymethyl chlorophyll a to chlorophyll a using ferredoxin as a reducing equivalent. Catalyzes the reduction of a hydroxymethyl group to a methyl group.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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