4-Hydroxy-2-Oxovalerate Aldolase (mhpE) Pseudoalteromonas Haloplanktis Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxy-2-oxovalerate aldolase (mhpE), Recombinant Protein
Full Product Name	Recombinant Pseudoalteromonas haloplanktis 4-hydroxy-2-oxovalerate aldolase (mhpE)
Product Gene Name	mhpE recombinant protein
Product Synonym Gene Name	mhpE
Sequence	MDLKGKKVTL HDMSLRDGMH AKQHQISLDE MVSIATGLDQ AGIPLIEVTH GDGLGGSSLN YGFPAHTDEE YLSAVVPKMT QAKVSALLIP GIGTVDHLKM AYDHGVSTIR VATHCTEADV SEQHISAARK MGLDTVGFLM MAHMISPEEL LAQAKLMESY GANCIYCTDS AGYMLPDDVS TRIALLRSEL NSETEIGFHG HHNLGMSIPN SLAAIEMGAN RIDGSVAGLG AGAGNTPLEV FTAVLDRMAV NHGIDLYKIM DVAEDLVMPM MDQPIRIDRN SLTLGYAGVY SSFLLFAERA EKKYGVPARD ILLELGRLKT VGGQEDMIDD TAMTMAKALK AAKA
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	36,961 Da
Sequence Positions	1-344, 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 Q3IEQ9
Species	Pseudoalteromonas haloplanktis (strain TAC 125)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mhpE recombinant protein	MBS1370395 is a recombinant protein targeting mhpE. Also known as Recombinant Pseudoalteromonas haloplanktis 4-hydroxy-2-oxovalerate aldolase (mhpE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mhpE 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 mhpE. It may not necessarily be applicable to this product.

NCBI GI #	499648066
NCBI Accession #	WP_011328800.1
UniProt Primary Accession #	Q3IEQ9
GenBank Nucleotide #	WP_011328800.1

NCBI Official Full Name	MULTISPECIES: 4-hydroxy-2-oxovalerate aldolase
UniProt Protein Name	4-hydroxy-2-oxovalerate aldolase
UniProt Synonym Protein Names	4-hydroxy-2-keto-pentanoic acid aldolase
UniProt Gene Name	mhpE
UniProt Synonym Gene Names	HOA
UniProt Comments for mhpE	Catalyzes the retro-aldol cleavage of 4-hydroxy-2-oxopentanoate to pyruvate and acetaldehyde. Is involved in the meta-cleavage pathway for the degradation of aromatic compounds.
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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