3-Phenylpropionate-Dihydrodiol/Cinnamic Acid-Dihydrodiol Dehydrogenase (hcaB) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (hcaB), Recombinant Protein
Full Product Name	Recombinant Escherichia coli 3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (hcaB)
Product Gene Name	hcaB recombinant protein
Sequence	MSDLHNESIF ITGGGSGLGL ALVERFIEEG AQVATLELSA AKVASLRQRF GEHILAVEGN VTCYADYQRA VDQILTRSGK LDCFIGNAGI WDHNASLVNT PAETLETGFH ELFNVNVLGY LLGAKACAPA LIASEGSMIF TLSNAAWYPG GGGPLYTASK HAATGLIRQL AYELAPKVRV NGVGPCGMAS DLRGPQALGQ SETSIMQSLT PEKIAAILPL QFFPQPADFT GPYVMLTSRR NNRALSGVMI NADAGLAIRG IRHVAAGLDL
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	28,500 Da
Sequence Positions	1-270, 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 P0CI31
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hcaB recombinant protein	MBS1120476 is a recombinant protein targeting hcaB. Also known as Recombinant Escherichia coli 3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (hcaB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hcaB 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 hcaB. It may not necessarily be applicable to this product.

NCBI GI #	16130466
NCBI GeneID	945346
NCBI Accession #	NP_417036.1
UniProt Primary Accession #	P0CI31
UniProt Secondary Accession #	P76995; P77646

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase
NCBI Official Symbol	hcaB
NCBI Official Synonym Symbols	ECK2538; JW2525; phdD; yfhX
UniProt Protein Name	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase
UniProt Synonym Protein Names	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase; 3-(cis-5,6-dihydroxycyclohexa-1,3-dien-1-yl)propanoate dehydrogenase; CI-dihydrodiol dehydrogenase; Cis-3-(2-carboxyethenyl)-3,5-cyclohexadiene-1,2-diol dehydrogenase; Cis-3-(2-carboxyethyl)-3,5-cyclohexadiene-1,2-diol dehydrogenase; PP-dihydrodiol dehydrogenase
Protein Family	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase
UniProt Gene Name	hcaB
UniProt Synonym Gene Names	phdD; yfhX
NCBI Protein Information	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase
NCBI Summary for hcaB	Hydrocinnamic acid is a synonym for 3-phenylpropionic acid. [More information is available at EcoGene: EG13459]. The subunit structure is unknown. [More information is available at EcoCyc: G7335].
UniProt Comments for hcaB	Converts 3-phenylpropionate-dihydrodiol (PP-dihydrodiol) and cinnamic acid-dihydrodiol (CI-dihydrodiol) into 3-(2,3-dihydroxylphenyl)propanoic acid (DHPP) and 2,3-dihydroxicinnamic acid (DHCI), respectively.
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