3-Phenylpropionate-Dihydrodiol/Cinnamic Acid-Dihydrodiol Dehydrogenase (hcaB) Shigella Sonnei Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (hcaB), Recombinant Protein
Full Product Name	Recombinant Shigella sonnei 3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase (hcaB)
Product Gene Name	hcaB recombinant protein
Product Synonym Gene Name	hcaB
Sequence	MSDLHNESIF ITGGGSGLGL ALVERFIEEG AQVATLELSA AKVASLRQRF GEHILAVEGN VTCYADYQRA VDQILTRSGK LDCFIGNAGI WDHNASLVNT PAETLETGFH ELFNVNVLGY LLGAKACAPA LIASEGSMIF TLSNAARYPG GGGPLYTASK HAATGLIRQL AYELAPKVRV NGVGPCGMAS DLRGPQALGQ SETSIMQSLT PEKIAAILPL QFFPQPADFT GPYVMLASRR 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	28,440 Da
Sequence Positions	1-270, Full length
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 Q3YZ12
Species	Shigella sonnei (strain Ss046)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hcaB recombinant protein	MBS1471714 is a recombinant protein targeting hcaB. Also known as Recombinant Shigella sonnei 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 #	447204118
NCBI Accession #	WP_001281374.1
UniProt Primary Accession #	Q3YZ12
GenBank Nucleotide #	WP_001281374.1

NCBI Official Full Name	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase
UniProt Protein Name	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase
UniProt Synonym Protein Names	2,3-dihydroxy-2,3-dihydrophenylpropionate dehydrogenase
Protein Family	3-phenylpropionate-dihydrodiol/cinnamic acid-dihydrodiol dehydrogenase
UniProt Gene Name	hcaB
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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