Manganese-Dependent 2,3-Dihydroxybiphenyl 1,2-Dioxygenase (bphC) Bacillus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Manganese-dependent 2,3-dihydroxybiphenyl 1,2-dioxygenase (bphC), Recombinant Protein
Full Product Name	Recombinant Bacillus sp. Manganese-dependent 2,3-dihydroxybiphenyl 1,2-dioxygenase (bphC)
Product Gene Name	bphC recombinant protein
Product Synonym Gene Name	bphC
Sequence	MTAEIAKFGH IALITPNLEK SVWFFRDIVG LEEVDRQGDT IFLRAWGDWE HHTLSLTPGN RARVDHIAWR TKRPEDVETF AEQLKAKGTE VQWIEPGEEK GQGKAIRFRL PNGYPFEIYY DVEKPKAPEG KKSRLKNNVY RPSYGIAPRR IDHVNVWTTN PSEIHQWLKD NMGFKMREYI RLNNGFVAGG WMSVTPLVHD IGVMVDPKGQ PNRLHHFAYY LDNVTDILRA ADILREHDIT IEMGGPGRHG ISQAFFLYVK DPGSGHRLEL FSGGYLIFDP DWEPIEWQEH ELQEGLIWYG PEMKPGGPMD DTTEC
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	36,323 Da
Sequence Positions	1-315, 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 Q8GR45
Species	Bacillus sp. (strain JF8)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bphC recombinant protein	MBS1457142 is a recombinant protein targeting bphC. Also known as Recombinant Bacillus sp. Manganese-dependent 2,3-dihydroxybiphenyl 1,2-dioxygenase (bphC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bphC 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 bphC. It may not necessarily be applicable to this product.

NCBI GI #	530784898
NCBI Accession #	WP_020961664.1
UniProt Primary Accession #	Q8GR45
GenBank Nucleotide #	WP_020961664.1

NCBI Official Full Name	Manganese-dependent 2,3-dihydroxybiphenyl 1,2-dioxygenase
UniProt Protein Name	Manganese-dependent 2,3-dihydroxybiphenyl 1,2-dioxygenase
UniProt Synonym Protein Names	Mn(II)-dependent 2,3-dihydroxybiphenyl 1,2-dioxygenase; Mn(II)-dependent 23OHBP oxygenase
Protein Family	Biphenyl-2,3-diol 1,2-dioxygenase
UniProt Gene Name	bphC
UniProt Comments for bphC	Catalyzes the meta-cleavage of the hydroxylated biphenyl ring. The enzyme can oxidize a wide range of substrates, and the substrate preference order is 2,3-dihydroxybiphenyl > 3-methylcatechol > catechol > 4-methylcatechol > 4-chlorocatechol.
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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