Diphthine Synthase (DPH5) Gibberella Zeae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Diphthine synthase (DPH5), Recombinant Protein
Full Product Name	Recombinant Gibberella zeae Diphthine synthase (DPH5)
Product Gene Name	DPH5 recombinant protein
Product Synonym Gene Name	DPH5; FG09628
Product Synonym Names	Diphthine synthase; EC=2.1.1.98; Diphthamide biosynthesis methyltransferase
Sequence	MLYLVGLGLS DETDITVKGL EVVKKASRVY LEAYTSILLV EQSVLESYYG RSITVADREM VESNSEEILR NAQNEDVAFL VVGDPFGATT HTDLVLRARE LEIPVRTVPN ASIMSGIGAC GLQLYNFGQT VSMVFFTDTW KPASFYDRIK ENRQIGLHTL VLVDIKVKEQ SLENMARGRL VYEPPRYMTV GQCAQQMLEI EEERKEGVYA KDSLAIGAAR VGGRTEKFVA GTLEELCSTD EELGPPLHSL VLLGRRTHEL ELDYVRQFAV DKEKWDKIWN AEYGKQL
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	32,320 Da
Sequence Positions	1-287aa; 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 Q4HZI0
Species	Gibberella zeae (strain PH-1 / MYA-4620 / FGSC 9075 / NRRL 31084) (Wheat head blight fungus) (Fusarium graminearum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DPH5 recombinant protein	MBS1436143 is a recombinant protein targeting DPH5. Also known as Recombinant Gibberella zeae Diphthine synthase (DPH5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DPH5 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 DPH5. It may not necessarily be applicable to this product.

NCBI GI #	46136225
NCBI GeneID	2790731
NCBI Accession #	XP_389804.1

UniProt Primary Accession #	Q4HZI0
UniProt Secondary Accession #	V6RP52
UniProt Related Accession #	Q4HZI0
GenBank Nucleotide #	XM_389804.1
NCBI Official Full Name	hypothetical protein FG09628.1
NCBI Official Symbol	FG09628.1
UniProt Protein Name	Diphthine synthase
UniProt Synonym Protein Names	Diphthamide biosynthesis methyltransferase
Protein Family	Diphthine methyl ester synthase
UniProt Gene Name	DPH5
UniProt Entry Name	DPH5_GIBZE
NCBI Protein Information	hypothetical protein
UniProt Comments for DPH5	S-adenosyl-L-methionine-dependent methyltransferase that catalyzes four methylations of the modified target histidine residue in translation elongation factor 2 (EF-2), to form an intermediate called diphthine methyl ester. The four successive methylation reactions represent the second step of diphthamide biosynthesis.
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