Bifunctional Protein Fold (folD) Thermoanaerobacter Tengcongensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bifunctional protein FolD (folD), Recombinant Protein
Full Product Name	Recombinant Thermoanaerobacter tengcongensis Bifunctional protein FolD (folD)
Product Gene Name	folD recombinant protein
Product Synonym Gene Name	folD; TTE1293
Product Synonym Names	Bifunctional protein FolD; Including the following 2 domains:; Methylenetetrahydrofolate dehydrogenase; EC=1.5.1.5; Methenyltetrahydrofolate cyclohydrolase; EC=3.5.4.9
Sequence	MKRMIIDGKE ISNRIKEEVK REIQEFGYKP RLAILMAGDD ESSKVYANSK VKACESVGIE AKVYYFSEKE EDKFFDTLEK LNEDKDTHGI MIEMPLPKGF DVDKVYDTIN PYKDVDCISN YNMGRLFAGK PLFVPCTPKA IIHILENTGV DLEGKHAVVI GRSNILGKPV AKLLLDKNCT VTVCHSKTKD LAYHTKQADV LVVAAGKMNL VRGDMVKEGV VLIDAGINVH EGKIYGDADF ESIKDKASYV TPVPGGVGPV TTAMILKNTL EAFKYAVKSL
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	30,996 Da
Sequence Positions	1-280aa; 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 Q8RAD0
Species	Thermoanaerobacter tengcongensis (strain DSM 15242 / JCM 11007 / NBRC 100824 / MB4) (Caldanaerobacter subterraneus subsp. tengcongensis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for folD recombinant protein	MBS1357929 is a recombinant protein targeting folD. Also known as Recombinant Thermoanaerobacter tengcongensis Bifunctional protein FolD (folD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of folD 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 folD. It may not necessarily be applicable to this product.

NCBI GI #	20807742
NCBI GeneID	997645
NCBI Accession #	NP_622913.1

UniProt Primary Accession #	Q8RAD0
UniProt Related Accession #	Q8RAD0
GenBank Nucleotide #	NC_003869.1
NCBI Official Full Name	5,10-methylene-tetrahydrofolate dehydrogenase
NCBI Official Symbol	FolD
UniProt Protein Name	Bifunctional protein FolD
Protein Family	Bifunctional protein
UniProt Gene Name	folD
UniProt Entry Name	FOLD_THETN
NCBI Protein Information	5,10-methylene-tetrahydrofolate dehydrogenase
UniProt Comments for folD	Catalyzes the oxidation of 5,10-methylenetetrahydrofolate to 5,10-methenyltetrahydrofolate and then the hydrolysis of 5,10-methenyltetrahydrofolate to 10-formyltetrahydrofolate.
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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