6,7-Dimethyl-8-Ribityllumazine Synthase (ribH) Thermus Thermophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	6,7-dimethyl-8-ribityllumazine synthase (ribH), Recombinant Protein
Full Product Name	Recombinant Thermus thermophilus 6,7-dimethyl-8-ribityllumazine synthase (ribH)
Product Gene Name	ribH recombinant protein
Product Synonym Gene Name	ribH
Sequence	MKPKTLSPIL TAKGVRLAIA VGRFNERVTK LLLEGALEAY ARLGGDPAEV LVAWVPGSFE LPLVAKRLAQ RPDVDAVVAL GAVIRGETPH FEYVAGQAAS GLMQAMLQTE KPIVFGVLTT NTPEEAQERA GGKAGNKGAE AVFTAIEMVR LLEAISR
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	16,647 Da
Sequence Positions	1-157, 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 Q5SLF7
Species	Thermus thermophilus (strain HB8 / 27634 / DSM 579)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ribH recombinant protein	MBS1305128 is a recombinant protein targeting ribH. Also known as Recombinant Thermus thermophilus 6,7-dimethyl-8-ribityllumazine synthase (ribH). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ribH 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 ribH. It may not necessarily be applicable to this product.

NCBI GI #	495909471
NCBI Accession #	WP_008634050.1
UniProt Primary Accession #	Q5SLF7
GenBank Nucleotide #	WP_008634050.1
NCBI Official Full Name	MULTISPECIES: 6,7-dimethyl-8-ribityllumazine synthase

UniProt Protein Name	6,7-dimethyl-8-ribityllumazine synthase
Protein Family	6,7-dimethyl-8-ribityllumazine synthase
UniProt Gene Name	ribH
UniProt Synonym Gene Names	DMRL synthase; LS; Lumazine synthase
UniProt Comments for ribH	Catalyzes the formation of 6,7-dimethyl-8-ribityllumazine by condensation of 5-amino-6-(D-ribitylamino)uracil with 3,4-dihydroxy-2-butanone 4-phosphate. This is the penultimate step in the biosynthesis of riboflavin.
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