Thymidylate Synthase (thyA) Rhodococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thymidylate synthase (thyA), Recombinant Protein
Full Product Name	Recombinant Rhodococcus sp. Thymidylate synthase (thyA)
Product Gene Name	thyA recombinant protein
Product Synonym Gene Name	thyA
Sequence	MTVPTPYEDL LRLVMDTGTP KADRTGTGTK SVFGHQMRWN LADGFPLITT KKVHLKSIVY ELLWFLRGDS NVKWLQDNGV TIWDEWADAD GELGPVYGVQ WRSWPTPSGE HIDQITQTIE TLKSNPDSRR IIVSAWNVGD IPQMALAPCH AFFQFYVADG KLSCQLYQRS ADLFLGVPFN IASYALLTHM VAQQAGLEPG DFIWTGGDCH IYDNHVDQVT EQLSREPLPY PTLKLNKRES IFDYTFEDVE IVDYRHHPAI KAPVAV
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	30,152 Da
Sequence Positions	1-266, 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 Q0SEI1
Species	Rhodococcus sp. (strain RHA1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thyA recombinant protein	MBS1451422 is a recombinant protein targeting thyA. Also known as Recombinant Rhodococcus sp. Thymidylate synthase (thyA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thyA 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 thyA. It may not necessarily be applicable to this product.

NCBI GI #	499914304
NCBI GeneID	4219800
NCBI Accession #	WP_011595038.1
UniProt Primary Accession #	Q0SEI1
UniProt Related Accession #	Q0SEI1

GenBank Nucleotide #	WP_011595038.1
NCBI Official Full Name	MULTISPECIES: thymidylate synthase
NCBI Official Symbol	RHA1_RS10975
UniProt Protein Name	Thymidylate synthase
Protein Family	Flavin-dependent thymidylate synthase
UniProt Gene Name	thyA
UniProt Synonym Gene Names	TS; TSase
NCBI Protein Information	thymidylate synthase
UniProt Comments for thyA	Catalyzes the reductive methylation of 2'-deoxyuridine-5'-monophosphate (dUMP) to 2'-deoxythymidine-5'-monophosphate (dTMP) while utilizing 5,10-methylenetetrahydrofolate (mTHF) as the methyl donor and reductant in the reaction, yielding dihydrofolate (DHF) as a by-product. This enzymatic reaction provides an intracellular de novo source of dTMP, an essential precursor for DNA biosynthesis.
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