Thymidylate Synthase Thyx (thyX) Desulfovibrio Vulgaris Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thymidylate synthase thyX (thyX), Recombinant Protein
Full Product Name	Recombinant Desulfovibrio vulgaris Thymidylate synthase thyX (thyX)
Product Gene Name	thyX recombinant protein
Product Synonym Gene Name	thyX
Sequence	MPRTEPRVEL LAHTPEPLSL LYAAFRQCYH AGFVADMWPR LLSGEIEREK QGAFIASILE SGHSSPIEHV SFTFAIEGVS RALTHQLVRH RIASFSQQSQ RYVDGSHFDY VMPPAIARNA AAKARFEQFM EDVGSAYRDI KALLEQDGRT GSRANEDARF VLPQAAASKI VVTMNCRALV HFFEERCCMR AQWEIRAVAD VMLGLCREVL PELFAHAGAK CERLGYCPEG ERFTCGRYPL RQSMP
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	27,652 Da
Sequence Positions	1-245, 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 Q729U4
Species	Desulfovibrio vulgaris (strain Hildenborough / 29579 / NCIMB 8303)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thyX recombinant protein	MBS1457110 is a recombinant protein targeting thyX. Also known as Recombinant Desulfovibrio vulgaris Thymidylate synthase thyX (thyX). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thyX 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 thyX. It may not necessarily be applicable to this product.

NCBI GI #	499241989
NCBI GeneID	2794076
NCBI Accession #	WP_010939529.1
UniProt Primary Accession #	Q729U4
UniProt Related Accession #	Q729U4

GenBank Nucleotide #	WP_010939529.1
NCBI Official Full Name	thymidylate synthase (FAD)
NCBI Official Symbol	thyX
UniProt Protein Name	Flavin-dependent thymidylate synthase
UniProt Synonym Protein Names	FAD-dependent thymidylate synthase
UniProt Gene Name	thyX
UniProt Synonym Gene Names	FDTS; TS; TSase
NCBI Protein Information	FAD-dependent thymidylate synthase
UniProt Comments for thyX	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 NADPH and FADH2 as the reductant.
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