Serine Hydroxymethyltransferase (glyA) Anaplasma Phagocytophilum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine hydroxymethyltransferase (glyA), Recombinant Protein
Full Product Name	Recombinant Anaplasma phagocytophilum Serine hydroxymethyltransferase (glyA)
Product Gene Name	glyA recombinant protein
Product Synonym Gene Name	glyA
Sequence	MVGYIGDIHI SESDAEVAEC LSAEYKRQNT SLQMIASENF VSRAVLQAQG SVLTNKYAEG YPGSRYYCGC SEVDVAETLA VERLCKLFGC KYANVQPHSG SQANQQVYMA LLKPGDTVLG MSLDSGGHLT HGAGPNVSGK WFNAVPYNVR RDTNLLDMGE IEEIALRVKP NLIIAGASSY PRRIDFKAFR AIADKVGAYF LADIAHYSGL IAGGQYPTPF GYAHVVTSTT HKTLRGPRGG VIMTDDEEIH KKLRSAVFPG MQGGALMHVI AAKAVAFREA MSPDFKVYVS QILDNSRALA AVLATGGLDV VTGGTDSHMV VVDLRSKGLT GRDVSSSLER AGIVCNKNAV PFDTEKPWVT SGIRLGAAAE TSRGLVVKDF EKIGQLVLKI VDSMRAGADM SVVESGVREE VATLVRVVPY DTLAC
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	45,575 Da
Sequence Positions	1-425, 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 Q2GLH3
Species	Anaplasma phagocytophilum (strain HZ)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glyA recombinant protein	MBS1470905 is a recombinant protein targeting glyA. Also known as Recombinant Anaplasma phagocytophilum Serine hydroxymethyltransferase (glyA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glyA 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 glyA. It may not necessarily be applicable to this product.

NCBI GI #	499769570
NCBI GeneID	3930419
NCBI Accession #	WP_011450304.1

UniProt Primary Accession #	Q2GLH3
UniProt Related Accession #	Q2GLH3
GenBank Nucleotide #	WP_011450304.1
NCBI Official Full Name	serine hydroxymethyltransferase
NCBI Official Symbol	glyA
UniProt Protein Name	Serine hydroxymethyltransferase
UniProt Gene Name	glyA
UniProt Synonym Gene Names	SHMT; Serine methylase
NCBI Protein Information	serine hydroxymethyltransferase
UniProt Comments for glyA	Catalyzes the reversible interconversion of serine and glycine with tetrahydrofolate (THF) serving as the one-carbon carrier. This reaction serves as the major source of one-carbon groups required for the biosynthesis of purines, thymidylate, methionine, and other important biomolecules. Also exhibits THF-independent aldolase activity toward beta-hydroxyamino acids, producing glycine and aldehydes, via a retro-aldol mechanism.
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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