Serine Hydroxymethyltransferase (glyA) Shigella Boydii Serotype 18 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine hydroxymethyltransferase (glyA), Recombinant Protein
Full Product Name	Recombinant Shigella boydii serotype 18 Serine hydroxymethyltransferase (glyA)
Product Gene Name	glyA recombinant protein
Sequence	MLKREMNIAD YDAELWQAME QEKVRQEEHI ELIASENYTS PRVMQAQGSQ LTNKYAEGYP GKRYYGGCEY VDIVEQLAID RAKELFGADY ANVQPHSGSQ ANFAVYTALL EPGDTVLGMN LAHGGHLTHG SPVNFSGKLY NIVPYGIDAT GHIDYADLEK QAKEHKPKMI IGGFSAYSGV VDWAKMREIA DSIGAYLFVD MAHVAGLVAA GVYPNPVPHA HVVTTTTHKT LAGPRGGLIL AKGGSEELYK KLNSAVFPGG QGGPLMHVIA GKAVALKEAM EPEFKTYQQQ VAKNAKAMVE VFLERGYKVV SGGTDNHLFL VDLVDKNLTG KEADAALGRA NITVNKNSVP NDPKSPFVTS GIRVGTPAIT RRGFKEAEAK ELAGWMCDVL DSINDEAVIE RIKGKVLDIC ARYPVYA
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	45,317 Da
Sequence Positions	1-417, Full length
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 B2TXW4
Species	Shigella boydii serotype 18 (strain CDC 3083-94 / BS512)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glyA recombinant protein	MBS1238148 is a recombinant protein targeting glyA. Also known as Recombinant Shigella boydii serotype 18 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 #	446841903
NCBI Accession #	WP_000919159.1
UniProt Primary Accession #	B2TXW4
GenBank Nucleotide #	WP_000919159.1
NCBI Official Full Name	MULTISPECIES: serine hydroxymethyltransferase

UniProt Protein Name	Serine hydroxymethyltransferase
UniProt Gene Name	glyA
UniProt Synonym Gene Names	SHMT; Serine methylase
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.
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