Serine Hydroxymethyltransferase 1 (glyA1) Pseudomonas Putida Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine hydroxymethyltransferase 1 (glyA1), Recombinant Protein
Full Product Name	Recombinant Pseudomonas putida Serine hydroxymethyltransferase 1 (glyA1)
Product Gene Name	glyA1 recombinant protein
Product Synonym Gene Name	glyA1
Sequence	MFSKQDQIQG YDDALLAAMN AEEQRQEDHI ELIASENYTS KRVMQAQGSG LTNKYAEGYP GKRYYGGCEH VDKVEALAIE RAKQLFGADY ANVQPHSGSS ANGAVYLALL QAGDTILGMS LAHGGHLTHG AKVSSSGKLY NAVQYGIDTN TGLIDYDEVE RLAVEHKPKM IVAGFSAYSK TLDFPRFRAI ADKVGALLFV DMAHVAGLVA AGLYPNPIPF ADVVTTTTHK TLRGPRGGLI LAKSNEEIEK KLNAAVFPGA QGGPLMHVIA AKAVCFKEAL EPGFKAYQQQ VIENAQAMAQ VFIDRGYDVV SGGTDNHLFL VSLIRQGLTG KDADAALGRA HITVNKNAVP NDPQSPFVTS GLRIGTPAVT TRGFKVAQCV ALAGWICDIL DNLGDADVEA DVAKNVAALC ADFPVYR
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	44,556 Da
Sequence Positions	1-417, 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 Q88R12
Species	Pseudomonas putida (strain KT2440)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glyA1 recombinant protein	MBS1420786 is a recombinant protein targeting glyA1. Also known as Recombinant Pseudomonas putida Serine hydroxymethyltransferase 1 (glyA1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glyA1 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 glyA1. It may not necessarily be applicable to this product.

NCBI GI #	26987064
NCBI GeneID	1044019
NCBI Accession #	NP_742489.1
UniProt Primary Accession #	Q88R12

UniProt Related Accession #	Q88R12
GenBank Nucleotide #	NC_002947.4
NCBI Official Full Name	serine hydroxymethyltransferase
NCBI Official Symbol	glyA-I
UniProt Protein Name	Serine hydroxymethyltransferase 1
Protein Family	Serine hydroxymethyltransferase
UniProt Gene Name	glyA1
UniProt Synonym Gene Names	SHMT 1; Serine methylase 1
NCBI Protein Information	serine hydroxymethyltransferase
UniProt Comments for glyA1	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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