# Serine Hydroxymethyltransferase (glyA) Clostridium Difficile Recombinant Protein

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Serine hydroxymethyltransferase (glyA), Recombinant Protein |
| **Full Product Name** | Recombinant Clostridium difficile Serine hydroxymethyltransferase (glyA) |
| **Product Gene Name** | glyA recombinant protein |
| **Product Synonym Gene Name** | glyA |
| **Sequence** | MFENLKKADP EIYESMKREL KRQQRNIELI ASENIVSVPV METMGSHLTN KYAEGYSGKR YYGGCEYIDE VETLAIDRIK KIFGAEHANV QPHSGANANI GVYFAMLKPG DVVMGMNLSQ GGHLTHGAPV NISGQYYKFY EYGIDKDSGL IDFDEVRKIA HEVKPKMIVA GASAYPREID FKKFREIADE VGALLMVDMA HIAGLVAAGL HQNPCEVADF VTTTTHKTLR GPRGGVILCK EKYAKDIDKA IFPGIQGGPL EHIIASKAVC FKEALSDEFK EYQVQVAKNA KALAEELIKR DFKLISGGTD NHLILLDLTN KNITGKAAEK RLDDAYITAN KNTIPFDPNG ALVTSGIRLG TPAVTTRGMK EEDMAIIAEA IDLCLTYDEE SKARTLVVGL TEKYPLYEEY NVMD |
| **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** | 45,795 Da |
| **Sequence Positions** | 1-414, 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 Q183G0 |
| **Species** | Clostridium difficile (strain 630) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for glyA recombinant protein** | MBS1334445 is a recombinant protein targeting glyA. Also known as Recombinant Clostridium difficile 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 #** | 500188303 |
| **NCBI GeneID** | 31354326 |
| **NCBI Accession #** | WP_011861660.1 |
| **UniProt Primary Accession #** | Q183G0 |

| | |
|---|---|
| **GenBank Nucleotide #** | WP_011861660.1 |
| **NCBI Official Full Name** | MULTISPECIES: serine hydroxymethyltransferase |
| **NCBI Official Symbol** | CD630DERM_RS14645 |
| **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. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/serine-hydroxymethyltransferase-glya/1334445