# Phosphoserine Aminotransferase (SER1) Saccharomyces Cerevisiae Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Phosphoserine aminotransferase (SER1), Recombinant Protein |
| **Full Product Name** | Recombinant Saccharomyces cerevisiae Phosphoserine aminotransferase (SER1) |
| **Product Gene Name** | SER1 recombinant protein |
| **Sequence** | MSLEREEPQH FGAGPAQMPT PVLQQAAKDL INFNDIGLGI GEISHRSKDA TKVIEDSKKH LIELLNIPDT HEVFYLQGGG TTGFSSVATN LAAAYVGKHG KIAPAGYLVT GSWSQKSFEE AKRLHVPAEV IFNAKDYNNG KFGKIPDESL WEDKIKGKAF SYVYLCENET VHGVEWPELP KCLVNDPNIE IVADLSSDIL SRKIDVSQYG VIMAGAQKNI GLAGLTLYII KKSILKNISG ASDETLHELG VPITPIAFDY PTVVKNNSAY NTIPIFTLHV MDLVFQHILK KGGVEAQQAE NEEKAKILYE ALDANSDFYN VPVDPKCRSK MNVVFTLKKD GLDDQFLKEA AARHLTGLKG HRSVGGFRAS IYNALSVKAV QNLVDFIKEF AEKNA |
| **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** | 43,416 Da |
| **Sequence Positions** | 1-395, 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 P33330 |
| **Species** | Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for SER1 recombinant protein** | MBS1254440 is a recombinant protein targeting SER1. Also known as Recombinant Saccharomyces cerevisiae Phosphoserine aminotransferase (SER1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of SER1 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 SER1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 398365625 |
| **NCBI GeneID** | 854356 |
| **NCBI Accession #** | NP_014827.3 |
| **UniProt Primary Accession #** | P33330 |
| **UniProt Secondary Accession #** | D6W2P0 |

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| **UniProt Related Accession #** | P33330 |
| **GenBank Nucleotide #** | NM_001183603.3 |
| **NCBI Official Full Name** | O-phospho-L-serine:2-oxoglutarate transaminase |
| **NCBI Official Symbol** | SER1 |
| **NCBI Official Synonym Symbols** | ADE9 |
| **UniProt Protein Name** | Phosphoserine aminotransferase |
| **UniProt Synonym Protein Names** | Phosphohydroxythreonine aminotransferase |
| **Protein Family** | Sericin |
| **UniProt Gene Name** | SER1 |
| **UniProt Synonym Gene Names** | SERC; PSAT |
| **NCBI Protein Information** | O-phospho-L-serine:2-oxoglutarate transaminase |
| **UniProt Comments for SER1** | Catalyzes the reversible conversion of 3-phosphohydroxypyruvate to phosphoserine and of 3-hydroxy-2-oxo-4-phosphonooxybutanoate to phosphohydroxythreonine. |
| **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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