# Phosphosulfolactate Synthase (comA) Methanocaldococcus Jannaschii Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Phosphosulfolactate synthase (comA), Recombinant Protein |
| **Full Product Name** | Recombinant Methanocaldococcus jannaschii Phosphosulfolactate synthase (comA) |
| **Product Gene Name** | comA recombinant protein |
| **Product Synonym Gene Name** | comA; MJ0255 |
| **Product Synonym Names** | Phosphosulfolactate synthase; EC=4.4.1.19; (2R)-phospho-3-sulfolactate synthase; PSL synthase |
| **Sequence** | MKAFEFLYED FQRGLTVVLD KGLPPKFVED YLKVCGDYID FVKFGWGTSA VIDRDVVKEK INYYKDWGIK VYPGGTLFEY AYSKGKFDEF LNECEKLGFE AVEISDGSSD ISLEERKNAI KRAKDNGFMV LTEVGKKMPD KDKQLTIDDR IKLINFDLDA GADYVIIEGR ESGKGIGLFD KEGKVKENEL DVLAKNVDIN KVIFEAPQKS QQVAFILKFG SSVNLANIAF DEVISLETLR RGLRGDTFGK V |
| **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** | 28,368 Da |
| **Sequence Positions** | 1-251aa; 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 Q57703 |
| **Species** | Methanocaldococcus jannaschii (strain 43067 / DSM 2661 / JAL-1 / JCM 10045 / NBRC 100440) (Methanococcus jannaschii) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for comA recombinant protein** | MBS1435859 is a recombinant protein targeting comA. Also known as Recombinant Methanocaldococcus jannaschii Phosphosulfolactate synthase (comA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of comA 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 comA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15668430 |
| **NCBI GeneID** | 1451109 |
| **NCBI Accession #** | NP_247226.1 |

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| **UniProt Primary Accession #** | Q57703 |
| **UniProt Related Accession #** | Q57703 |
| **GenBank Nucleotide #** | NC_000909.1 |
| **NCBI Official Full Name** | hypothetical protein MJ_0255 |
| **NCBI Official Symbol** | MJ_0255 |
| **UniProt Protein Name** | Phosphosulfolactate synthase |
| **UniProt Synonym Protein Names** | (2R)-phospho-3-sulfolactate synthase; PSL synthase |
| **Protein Family** | Comitin |
| **UniProt Gene Name** | comA |
| **UniProt Synonym Gene Names** | PSL synthase |
| **UniProt Entry Name** | PSLS_METJA |
| **NCBI Protein Information** | hypothetical protein |
| **UniProt Comments for comA** | Catalyzes the addition of sulfite to phosphoenolpyruvate (PEP) to yield (2R)-phospho-3-sulfolactate (PSL). |
| **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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