# 1-Aminocyclopropane-1-Carboxylate Deaminase (acdS) Burkholderia Ambifaria Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 1-aminocyclopropane-1-carboxylate deaminase (acdS), Recombinant Protein |
| **Full Product Name** | Recombinant Burkholderia ambifaria 1-aminocyclopropane-1-carboxylate deaminase (acdS) |
| **Product Gene Name** | acdS recombinant protein |
| **Product Synonym Gene Name** | acdS |
| **Sequence** | MNLQRFSRYP LTFGPTPIQP LKRLSQHLGG KVELYAKRED CNSGLAFGGN KTRKLEYLVP DALAQGADTL VSIGGVQSNQ TRQVAAVAAH LGMKCVLVQE HWVNYEDPVY DRVGNIQLSR MMGADVRLVA DGFDIGIRRS WEEAMESVRQ AGGKPYPIPA GCSEHPLGGL GFVGFAEEVR EQEAQLGFKF DYVVVCSVTG STQAGMVVGF AADGRADRVI GIDASATPER THEQITRIAR HTAELVDLGR PITEADVVLD TRYAGPEYGL PNDGTLEAIR LCARLEGMLT DPVYEGKSMH GMIDKVRRGE FEPGSKVLYA HLGGVPALSA YAEIFRNG |
| **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** | 36,766 Da |
| **Sequence Positions** | 1-338, 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 Q0B569 |
| **Species** | Burkholderia ambifaria (strain BAA-244 / AMMD) (Burkholderia cepacia (strain AMMD)) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for acdS recombinant protein** | MBS1356243 is a recombinant protein targeting acdS. Also known as Recombinant Burkholderia ambifaria 1-aminocyclopropane-1-carboxylate deaminase (acdS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of acdS 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 acdS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499979367 |
| **NCBI Accession #** | WP_011660085.1 |
| **UniProt Primary Accession #** | Q0B569 |
| **GenBank Nucleotide #** | WP_011660085.1 |

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| **NCBI Official Full Name** | aminocyclopropane-1-carboxylate deaminase/D-cysteine desulfhydrase family protein |
| **UniProt Protein Name** | 1-aminocyclopropane-1-carboxylate deaminase |
| **Protein Family** | 1-aminocyclopropane-1-carboxylate deaminase |
| **UniProt Gene Name** | acdS |
| **UniProt Synonym Gene Names** | ACC deaminase; ACCD |
| **UniProt Comments for acdS** | Catalyzes a cyclopropane ring-opening reaction, the irreversible conversion of 1-aminocyclopropane-1-carboxylate (ACC) to ammonia and alpha-ketobutyrate. Allows growth on ACC as a nitrogen source. |
| **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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