# Adenylosuccinate Synthetase (purA) Mycobacterium Bovis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Adenylosuccinate synthetase (purA), Recombinant Protein |
| **Full Product Name** | Recombinant Mycobacterium bovis Adenylosuccinate synthetase (purA) |
| **Product Gene Name** | purA recombinant protein |
| **Sequence** | MPAIVLIGAQ WGDEGKGKAT DLLGGRVQWV VRYQGGNNAG HTVVLPTGEN FALHLIPSGV LTPGVTNVIG NGVVIDPGVL LNELRGLQDR GVDTAKLLIS ADAHLLMPYH IAIDKVTERY MGSKKIGTTG RGIGPCYQDK IARIGIRVAD VLDPEQLTHK VEAACEFKNQ VLVKIYNRKA LDPAQVVDAL LEQAEGFKHR IADTRLLLNA ALEAGETVLL EGSQGTLLDV DHGTYPYVTS SNPTAGGAAV GSGIGPTRIG TVLGILKAYT TRVGSGPFPT ELFDEHGEYL SKTGREFGVT TGRRRRCGWF DAVIARYAAR VNGITDYFLT KLDVLSSLES VPVCVGYEID GRRTRDMPMT QRDLCRAKPV YEELPGWWED ISGAREFDDL PAKARDYVLR LEQLAGAPVS CIGVGPGREQ TIVRRDVLQD RP |
| **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** | 46,823 Da |
| **Sequence Positions** | 1-432, 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 A1KFH8 |
| **Species** | Mycobacterium bovis (strain BCG / Pasteur 1173P2) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for purA recombinant protein** | MBS1258898 is a recombinant protein targeting purA. Also known as Recombinant Mycobacterium bovis Adenylosuccinate synthetase (purA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of purA 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 purA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 489496915 |
| **NCBI GeneID** | 1091260 |
| **NCBI Accession #** | WP_003401829.1 |
| **UniProt Primary Accession #** | A1KFH8 |
| **UniProt Related Accession #** | P65881 |

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| **GenBank Nucleotide #** | WP_003401829.1 |
| **NCBI Official Full Name** | MULTISPECIES: adenylosuccinate synthetase |
| **NCBI Official Symbol** | purA |
| **UniProt Protein Name** | Adenylosuccinate synthetase |
| **UniProt Synonym Protein Names** | IMP--aspartate ligase |
| **Protein Family** | Adenylosuccinate synthetase |
| **UniProt Gene Name** | purA |
| **UniProt Synonym Gene Names** | AMPSase; AdSS |
| **NCBI Protein Information** | PROBABLE ADENYLOSUCCINATE SYNTHETASE PURA (IMP--ASPARTATE LIGASE) (ADSS) (AMPSASE) |
| **UniProt Comments for purA** | Plays an important role in the de novo pathway of purine nucleotide biosynthesis. Catalyzes the first committed step in the biosynthesis of AMP from IMP. |
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