Adenylosuccinate Synthetase (purA) Deinococcus Radiodurans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Adenylosuccinate synthetase (purA), Recombinant Protein
Full Product Name	Recombinant Deinococcus radiodurans Adenylosuccinate synthetase (purA)
Product Gene Name	purA recombinant protein
Product Synonym Gene Name	purA; DR_0035
Product Synonym Names	Adenylosuccinate synthetase; AMPSase; AdSS; EC=6.3.4.4; IMP--aspartate ligase
Sequence	MPGIAIVGAQ WGDEGKGKIV DFLAPEAEYV VRYQGGANAG HTVNAKGKTF KLNLLPSGVL HEGATSILGD GMVIDPEKFI EERRNLMEGG LNPRLKISDR AHIVLPHHKY VDGRKDFVGT TGKGIGPAYA DRARRVGIRF GDLLDEGVLR ERIERLLEAK PNSTRDAGWA TVEDGLKSLA PIREQLAPFI ADTGSELRQA IKDGRKVLFE GAQATLLDLN YGTYPFVTSS HPTVGGILVG TGVNHKALHR VYGVAKAFNT RVGHGPFATE VHDEAGILRL RGDGSQPWDE YGTTTGRPRR VGWLDLELLK YAVDVNGLDG LVINKMDILG GLDEIPVCTG YDEGGQPVFK KMKGWSSTDG VTSRATLPKE AQAYLDLIED TVQCPVVIFS AGPEREKTYG EVHWG
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	43,974 Da
Sequence Positions	1-405aa; 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 Q9RYB5
Species	Deinococcus radiodurans (strain 13939 / DSM 20539 / JCM 16871 / LMG 4051 / NBRC 15346 / NCIMB 9279 / R1 / VKM B-1422)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for purA recombinant protein	MBS1340648 is a recombinant protein targeting purA. Also known as Recombinant Deinococcus radiodurans 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.

NCBI GI #	15805076
NCBI GeneID	1797270
NCBI Accession #	NP_293761.1

UniProt Primary Accession #	Q9RYB5
UniProt Related Accession #	Q9RYB5
GenBank Nucleotide #	NC_001263.1
NCBI Official Full Name	adenylosuccinate synthetase
NCBI Official Symbol	DR_0035
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
UniProt Entry Name	PURA_DEIRA
NCBI Protein Information	adenylosuccinate synthetase
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.
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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