Adenylosuccinate Synthetase (purA) Thermoplasma Acidophilum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Adenylosuccinate synthetase (purA), Recombinant Protein
Full Product Name	Recombinant Thermoplasma acidophilum Adenylosuccinate synthetase (purA)
Product Gene Name	purA recombinant protein
Product Synonym Gene Name	purA
Sequence	MVVPNGEGDK TAAVVGLQFG DEGKGKITDY LSGSYDVVVR FNGGTNAGHT VVTDEGTFKF HLLPSGSLRT SYVVLGSGMV IDPVALIPEI EIVRKINPAL KIIISRNAHV VTKMHRQIDV EEEKIRSSLM IGTTAQGIGP TYEDKYARTG IRMVDISDID LIKEKIETMY RMHSNLLANT EFSNLAKREE MAKEIYEAGI KLTGYLDYTE VAIDRLYSQG KRILFEGAQG VFLDPDFGFY PFVTSSNTIS ASVYTGTGFS LRKVNRIIGV AKAYVSKVGE GPFPTEITGD LAKQLRDLGG EYGTTTGRPR RVGWLDLPML KYAVRIDDVD EIAITKVDTL GMLDTVKVCR QYLIDGKPID YVPRDMNTIK KIEPVYDEFE GWGAISDSIS GRKISIDQLP SKLVKYIKYI EDQVGKPIGI ISMGKERNRT VRIIK
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	48,247 Da
Sequence Positions	1-435, 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 Q9HIH2
Species	Thermoplasma acidophilum (strain 25905 / DSM 1728 / JCM 9062 / NBRC 15155 / AMRC-C165)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for purA recombinant protein	MBS1436071 is a recombinant protein targeting purA. Also known as Recombinant Thermoplasma acidophilum 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 #	499204234
NCBI Accession #	WP_010901774.1
UniProt Primary Accession #	Q9HIH2
GenBank Nucleotide #	WP_010901774.1

NCBI Official Full Name	adenylosuccinate synthetase
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 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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