Adenylosuccinate Synthetase, Chloroplastic (PURA) Nicotiana Tabacum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Adenylosuccinate synthetase, chloroplastic (PURA), Recombinant Protein
Full Product Name	Recombinant Nicotiana tabacum Adenylosuccinate synthetase, chloroplastic (PURA)
Product Gene Name	PURA recombinant protein
Product Synonym Gene Name	PURA
Sequence	ASVVEHQGVN DSGLTRIESL SQVSGVLGCQ WGDEGKGKLV DILAKHFDIV ARCQGGANAG HTIYNSEGKK FALHLVPSGI LNEETICVIG NGVVVHLPGL FKEIDNLESN GVSCQGRILV SDRAHLLFDF HQEVDGLREA ELAKSFIGTT KRGIGPCYSS KVIRNGIRVS DLRHMDTFPQ QLDLLLSDAA SRFQGFNYGR DMLKEEVERY KKFAERLEPF ITDTVHFMND AISQKKKILV EGGQATMLDI DFGTYPFVTS SSPSAGGICT GLGIAPRVVG DLVGVVKAYT TRVGSGPFPT EIMGKGGDLL RFAGQEFGTT TGRPRRCGWL DIVALRFCCQ INGFASLNLT KLDVLSDLSE IQLGVTYRHP DGSTLNSFPS DIRLLEQIKV EYEVMPGWQS DISSVRKYSD LPKAAREYVE RIEELVGVPV HYIGVGPGRD ALIYK
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	55,218 Da
Sequence Positions	61-505, 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 Q6T7E8
Species	Nicotiana tabacum (Common tobacco)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PURA recombinant protein	MBS1401231 is a recombinant protein targeting PURA. Also known as Recombinant Nicotiana tabacum Adenylosuccinate synthetase, chloroplastic (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 #	1027852396
NCBI GeneID	107819886
NCBI Accession #	NP_001312986.1

UniProt Primary Accession #	Q6T7E8
UniProt Related Accession #	Q6T7E8
GenBank Nucleotide #	NM_001326057.1
NCBI Official Full Name	adenylosuccinate synthetase, chloroplastic
NCBI Official Symbol	LOC107819886
NCBI Official Synonym Symbols	AdSS; purA; AMPSase
UniProt Protein Name	Adenylosuccinate synthetase, chloroplastic
UniProt Synonym Protein Names	IMP--aspartate ligase
Protein Family	Adenylosuccinate synthetase
UniProt Gene Name	PURA
UniProt Synonym Gene Names	AMPSase; AdSS
NCBI Protein Information	adenylosuccinate synthetase, chloroplastic
UniProt Comments for PURA	Plays an important role in the de novo pathway and in the salvage pathway of purine nucleotide biosynthesis. Catalyzes the first committed step in the biosynthesis of AMP from IMP ().
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