Tyrosine--Trna Ligase (tyrS) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tyrosine--tRNA ligase (tyrS), Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Schizaphis graminum Tyrosine--tRNA ligase (tyrS)
Product Gene Name	tyrS recombinant protein
Product Synonym Gene Name	tyrS
Sequence	MDLINELHQR NLIFHITNEN KLKELIKNKY ISLYCGFDPT EDSLHVGHLL PLITLKRFQV LGHKPIVLIG GATSLIGDPS FKTKERLLKS DSFVEKCTLK ISQQISFFLD FNSNFNSAII LNNNLWFKKI NILQFLRDVG KYFSVNALIN REAVKKRIKR SDQGISFTEF SYNLLQAYDF FILNQKNQVS LQIGGSDQWG NISSGMHLIH RISKKEAYGL TLPLLMQSNG IKFGKTESGT VWLDPQKTTP YRFYQFWMNI EDSNVYRFLK LFTFIDIHEI NEREKNSYKK NQIVSDKVLL AKHMTRLVHG DEKLSAAERI TNILFFKNIN DIQISDLEQL RKDGVPVVET YKIKDLQEAL VLSSLAQSRT QAKNMIISNS ISINTKKIVN KNYIIDDNDK LFNQFTLLSR GKKNHCLIYW NK
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	48,985 Da
Sequence Positions	1-422, 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 Q8KA14
Species	Buchnera aphidicola subsp. Schizaphis graminum (strain Sg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tyrS recombinant protein	MBS1342862 is a recombinant protein targeting tyrS. Also known as Recombinant Buchnera aphidicola subsp. Schizaphis graminum Tyrosine--tRNA ligase (tyrS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tyrS 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 tyrS. It may not necessarily be applicable to this product.

NCBI GI #	499366070
NCBI Accession #	WP_011053648.1
UniProt Primary Accession #	Q8KA14
GenBank Nucleotide #	WP_011053648.1

NCBI Official Full Name	tyrosine--tRNA ligase
UniProt Protein Name	Tyrosine--tRNA ligase
UniProt Synonym Protein Names	Tyrosyl-tRNA synthetase
Protein Family	Tyrosine--tRNA ligase
UniProt Gene Name	tyrS
UniProt Synonym Gene Names	TyrRS
UniProt Comments for tyrS	Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).
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