Tyrosine--Trna Ligase (tyrS) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tyrosine--tRNA ligase (tyrS), Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Baizongia pistaciae Tyrosine--tRNA ligase (tyrS)
Product Gene Name	tyrS recombinant protein
Product Synonym Gene Name	tyrS
Sequence	MLTDTLIQEF QDRNLISQIT NEIDLKNILL HNKISLYCGF DITADSLHVG HILPLLCLRR FQNLGHRPVI LMGGGTSLIG DPSFKLLERQ LNSIELVHTW KQKITKQLSL FLKFNVGKNN ALIVDNYEWF KNINVLTFLR DIGKHFSINQ MIVRDAIQRR IKRLDQGISF TEFSYNLLQA YDFYFLNKQL DVILQIGGSD QWGNIISGID LIRRLHKKRA YGITVPLLTK KDGRKFGKTE LDTIWLDKMK TSPYKFYQYW MNISDSDIYS FLKMFTFLSL SEIKALKDTT KPTELNSVKK ILAEYLTNLV HGSNEVRAIQ RITSSLFSGK FSEMKETDFF QLEQDGMPSV QLYNSGNLQQ LLVYSRLALS RSHAKSMIVS NSVRINNIIQ NNPFYILCNR DKMYHKYTLL SRGKKNFCLL CWTK
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	49,330 Da
Sequence Positions	1-424, 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 Q89AW3
Species	Buchnera aphidicola subsp. Baizongia pistaciae (strain Bp)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tyrS recombinant protein	MBS1393661 is a recombinant protein targeting tyrS. Also known as Recombinant Buchnera aphidicola subsp. Baizongia pistaciae 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 #	499403783
NCBI Accession #	WP_011091250.1
UniProt Primary Accession #	Q89AW3
GenBank Nucleotide #	WP_011091250.1

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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