Tyrosine--Trna Ligase 2 (tyrS2) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tyrosine--tRNA ligase 2 (tyrS2), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus Tyrosine--tRNA ligase 2 (tyrS2)
Product Gene Name	tyrS2 recombinant protein
Product Synonym Gene Name	tyrS2
Sequence	MNIIDELEWR GAINQQTDEE GLRKLVEEKK ISLYCGVDPT GDSMHIGHLI PFMMMKRFQL AGHHPVILIG GATGTIGDPS GRQSERQLQT LEVVQHNVDA LTAQMKKLFD FGGNSEVKMV NNYDWTHEIN IIEFLRDYGK NFSINSMLAK DIVASRLDTG ISFTEFTYQI LQAMDFHHLY TKEDVQLQIG GSDQWGNITS GLDLIRKLEG HEAKVFGLTI PLLLKSDGTK FGKSAGGAVW LDPEKTTPFE FYQFWVNTDD RDVVKYLKYF TFLTKERIDE LAVKVETEPH KREAQKVLAE EMTKFVHGEE ALLQAVKITE ALFSGDIKSL TADEIEQGFK EMPTFQSSKE TKNIVEWLVD LGIEPSRRQA REDINNGAIS MNGEKVTDVG TDVTVENSFD GRFIIIRKGK KNYSLVKLG
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	47,422 Da
Sequence Positions	1-419, Full length
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 Q72Y10
Species	Bacillus cereus (strain 10987)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tyrS2 recombinant protein	MBS1280511 is a recombinant protein targeting tyrS2. Also known as Recombinant Bacillus cereus Tyrosine--tRNA ligase 2 (tyrS2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tyrS2 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 tyrS2. It may not necessarily be applicable to this product.

NCBI GI #	446943821
NCBI Accession #	WP_001021077.1
UniProt Primary Accession #	Q72Y10
GenBank Nucleotide #	WP_001021077.1

NCBI Official Full Name	MULTISPECIES: Tyrosine--tRNA ligase 2
UniProt Protein Name	Tyrosine--tRNA ligase 2
UniProt Synonym Protein Names	Tyrosyl-tRNA synthetase 2
Protein Family	Tyrosine--tRNA ligase
UniProt Gene Name	tyrS2
UniProt Synonym Gene Names	TyrRS 2
UniProt Comments for tyrS2	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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