Threonine--Trna Ligase 2 (thrZ) Bacillus Subtilis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Threonine--tRNA ligase 2 (thrZ), Recombinant Protein
Full Product Name	Recombinant Bacillus subtilis Threonine--tRNA ligase 2 (thrZ), partial
Product Gene Name	thrZ recombinant protein
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	73,388 Da
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 P18256
Species	Bacillus subtilis (strain 168)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thrZ recombinant protein	MBS1127994 is a recombinant protein targeting thrZ. Also known as Recombinant Bacillus subtilis Threonine--tRNA ligase 2 (thrZ), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thrZ 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 thrZ. It may not necessarily be applicable to this product.

NCBI GI #	255767793
NCBI GeneID	937135
NCBI Accession #	NP_391636.2
UniProt Primary Accession #	P18256
UniProt Secondary Accession #	P70992
UniProt Related Accession #	P18256
GenBank Nucleotide #	NC_000964.3
NCBI Official Full Name	threonine--tRNA ligase 2
NCBI Official Symbol	thrZ
UniProt Protein Name	Threonine--tRNA ligase 2

UniProt Synonym Protein Names	Threonyl-tRNA synthetase 2
Protein Family	Threonine--tRNA ligase
UniProt Gene Name	thrZ
UniProt Synonym Gene Names	thrS2; ThrRS 2
NCBI Protein Information	threonine--tRNA ligase 2
UniProt Comments for thrZ	Catalyzes the attachment of threonine to tRNA(Thr) in a two-step reaction: L-threonine is first activated by ATP to form Thr-AMP and then transferred to the acceptor end of tRNA(Thr). Also edits incorrectly charged L-seryl-tRNA(Thr).
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