Bifunctional Protein Tils/Hprt (Tils/Hprt) (tilS) Listeria Monocytogenes Serotype 4b Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bifunctional protein tilS/hprT (tilS/hprT), Recombinant Protein
Full Product Name	Recombinant Listeria monocytogenes serotype 4b Bifunctional protein tilS/hprT (tilS/hprT), partial
Product Gene Name	tilS recombinant protein
Product Synonym Gene Name	tilS\/hprT
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	74,266 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 Q724J4
Species	Listeria monocytogenes serotype 4b (strain F2365)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for tilS recombinant protein	MBS1464458 is a recombinant protein targeting tilS. Also known as Recombinant Listeria monocytogenes serotype 4b Bifunctional protein tilS/hprT (tilS/hprT), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of tilS 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 tilS. It may not necessarily be applicable to this product.

NCBI GI #	499261152
NCBI Accession #	WP_010958692.1
UniProt Primary Accession #	Q724J4
GenBank Nucleotide #	WP_010958692.1
NCBI Official Full Name	bifunctional tRNA lysidine(34) synthetase TilS/hypoxanthine phosphoribosyltransferase
UniProt Protein Name	Bifunctional protein TilS/HprT
UniProt Synonym Protein Names	tRNA(Ile)-lysidine synthase (EC:6.3.4.19)Alternative name(s):tRNA(Ile)-2-lysyl-cytidine synthase; tRNA(Ile)-lysidine synthetase
Protein Family	tRNA(Ile)-lysidine synthase

UniProt Gene Name	tilS/hprT
UniProt Synonym Gene Names	HGPRT; HGPRTase
UniProt Comments for tilS	Ligates lysine onto the cytidine present at position 34 of the AUA codon-specific tRNA(Ile) that contains the anticodon CAU, in an ATP-dependent manner. Cytidine is converted to lysidine, thus changing the amino acid specificity of the tRNA from methionine to isoleucine ().
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