Trna Pseudouridine (38/39) Synthase (PUS3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	tRNA pseudouridine (38/39) synthase (PUS3), Recombinant Protein
Full Product Name	Recombinant Human tRNA pseudouridine (38/39) synthase (PUS3)
Product Gene Name	PUS3 recombinant protein
Product Synonym Gene Name	PUS3
Sequence	AYNDTDRNQT EKLLKRVREL EQEVQRLKKE QAKNKEDSNI RENSAGAGKT KRAFDFSAHG RRHVALRIAY MGWGYQGFAS QENTNNTIEE KLFEALTKTR LVESRQTSNY HRCGRTDKGV SAFGQVISLD LRSQFPRGRD SEDFNVKEEA NAAAEEIRYT HILNRVLPPD IRILAWAPVE PSFSARFSCL ERTYRYFFPR ADLDIVTMDY AAQKYVGTHD FRNLCKMDVA NGVINFQRTI LSAQVQLVGQ SPGEGRWQEP FQLCQFEVTG QAFLYHQVRC MMAILFLIGQ GMEKPEIIDE LLNIEKNPQK PQYSMAVEFP LVLYDCKFEN VKWIYDQEAQ EFNITHLQQL WANHAVKTHM LYSMLQGLDT VPVPCGIGPK MDGMTEWGNV KPSVIKQTSA FVEGVKMRTY KPLMDRPKCQ GLESRIQHFV RRGRIEHPHL FHEEETKAKR DCNDTLEEEN TNLETPTKRV CVDTEIKSII
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	55,647 Da
Sequence Positions	2-481, 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.
OMIM	616283
3D Structure	ModBase 3D Structure for Q9BZE2
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PUS3 recombinant protein	MBS1365062 is a recombinant protein targeting PUS3. Also known as Recombinant Human tRNA pseudouridine (38/39) synthase (PUS3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PUS3 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 PUS3. It may not necessarily be applicable to this product.

NCBI GI #	430768618
NCBI GeneID	83480
NCBI Accession #	NP_001258914.1

UniProt Primary Accession #	Q9BZE2
UniProt Secondary Accession #	Q96D17; Q96J23; Q96NB4; B2RAM0
UniProt Related Accession #	Q9BZE2
GenBank Nucleotide #	NM_001271985.1
NCBI Official Full Name	tRNA pseudouridine(38/39) synthase isoform 2
NCBI Official Synonym Full Names	pseudouridylate synthase 3
NCBI Official Symbol	PUS3
NCBI Official Synonym Symbols	MRT55; FKSG32; 2610020J05Rik
UniProt Protein Name	tRNA pseudouridine(38/39) synthase
UniProt Synonym Protein Names	tRNA pseudouridine synthase 3; tRNA pseudouridylate synthase 3; tRNA-uridine isomerase 3
UniProt Gene Name	PUS3
NCBI Protein Information	tRNA pseudouridine(38/39) synthase
NCBI Summary for PUS3	The protein encoded by this gene catalyzes the formation of tRNA pseudouridine from tRNA uridine at position 39 in the anticodon stem and loop of transfer RNAs. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]
UniProt Comments for PUS3	Formation of pseudouridine at position 39 in the anticodon stem and loop of transfer RNAs.
Research Articles on PUS3	**1.** Consistent with the known role of Pus3 in isomerizing uracil to pseudouridine at positions 38 and 39 in tRNA, we found a significant reduction in this post-transcriptional modification of tRNA in patient cells
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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