Non-Canonical Purine NTP Pyrophosphatase (TA0325) Thermoplasma Acidophilum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Non-canonical purine NTP pyrophosphatase (Ta0325), Recombinant Protein
Full Product Name	Recombinant Thermoplasma acidophilum Non-canonical purine NTP pyrophosphatase (Ta0325)
Product Gene Name	Ta0325 recombinant protein
Product Synonym Gene Name	Ta0325
Sequence	MYRFVTSNRH KFEEVSEMAA LYGIEIEWVR MKYEEIQDDS TERISYDSCN KLSRIVEAPY FVDDSGLFIN ALRGFPGPYS NYVSSTIGNE GILKIMDDVD DRTAYFLTVV SMNEGHSITQ FIGKVMGKIA RSIRGSNGFG YDPIFIPEGS DRTFAEMDIK AKNAISHRSI AFRGLFEYIK MNQTAKK
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	21,339 Da
Sequence Positions	1-187, 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 Q9HLA4
Species	Thermoplasma acidophilum (strain 25905 / DSM 1728 / JCM 9062 / NBRC 15155 / AMRC-C165)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ta0325 recombinant protein	MBS1436148 is a recombinant protein targeting Ta0325. Also known as Recombinant Thermoplasma acidophilum Non-canonical purine NTP pyrophosphatase (Ta0325). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ta0325 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 Ta0325. It may not necessarily be applicable to this product.

NCBI GI #	499203214
NCBI Accession #	WP_010900754.1
UniProt Primary Accession #	Q9HLA4
GenBank Nucleotide #	WP_010900754.1
NCBI Official Full Name	non-canonical purine NTP pyrophosphatase

UniProt Protein Name	dITP/XTP pyrophosphatase
UniProt Synonym Protein Names	Non-canonical purine NTP pyrophosphatase
UniProt Gene Name	Ta0325
UniProt Synonym Gene Names	NTPase
UniProt Comments for Ta0325	Pyrophosphatase that catalyzes the hydrolysis of nucleoside triphosphates to their monophosphate derivatives, with a high preference for the non-canonical purine nucleotides XTP (xanthosine triphosphate), dITP (deoxyinosine triphosphate) and ITP. Seems to function as a house-cleaning enzyme that removes non-canonical purine nucleotides from the nucleotide pool, thus preventing their incorporation into DNA/RNA and avoiding chromosomal lesions.
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