Non-Canonical Purine NTP Pyrophosphatase (Map_2420c) (MAP_2420c) Mycobacterium Paratuberculosis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Non-canonical purine NTP pyrophosphatase (MAP_2420c), Recombinant Protein
Full Product Name	Recombinant Mycobacterium paratuberculosis Non-canonical purine NTP pyrophosphatase (MAP_2420c)
Product Gene Name	MAP_2420c recombinant protein
Product Synonym Gene Name	MAP_2420c
Sequence	MSPLLVASRN RKKLAELRRV LDAAGVTGLT LVSLDDVAPF EEAPETGAVF EENALAKARD AFAATGLASV ADDSGLEVAA LNGMPGVLSA RWSGRHGDDA ANTALLLAQL RDVPDERRAA SFVSACALVS ASGEVVVRGE WPGRIAREPR GDGGFGYDPV FVPDDAAGRT AAQLSPAEKD AVSHRGRALR LLVPALETLA RARG
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	21,236 Da
Sequence Positions	1-204, 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 Q73X89
Species	Mycobacterium paratuberculosis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAP_2420c recombinant protein	MBS1462428 is a recombinant protein targeting MAP_2420c. Also known as Recombinant Mycobacterium paratuberculosis Non-canonical purine NTP pyrophosphatase (MAP_2420c). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MAP_2420c 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 MAP_2420c. It may not necessarily be applicable to this product.

NCBI GI #	489969955
NCBI Accession #	WP_003873192.1
UniProt Primary Accession #	Q73X89
GenBank Nucleotide #	WP_003873192.1

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	MAP_2420c
UniProt Synonym Gene Names	NTPase
UniProt Comments for MAP_2420c	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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