Non-Canonical Purine NTP Pyrophosphatase (Smu_1717c) (SMU_1717c) Streptococcus Mutans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Non-canonical purine NTP pyrophosphatase (SMU_1717c), Recombinant Protein
Full Product Name	Recombinant Streptococcus mutans Non-canonical purine NTP pyrophosphatase (SMU_1717c)
Product Gene Name	SMU_1717c recombinant protein
Product Synonym Gene Name	SMU_1717c
Sequence	MKEKIYEYKD DHNWFISQWS KVGSSTYYEE EAEETYSSIE QSLRGLLDEG NSFILTVIKI NSNIALVRFI LKMLNEEQQD NFKVSSHKGA ILVTQGQQLL LVCLPKKGIT ITDFFEKEKK VSELGDTILI ATRNEGKTKE FSQMFAQLGI KVENLNQYPD LPEVEETGLT FEENARLKAE TISHLTGQMV LADDSGLKVD VLGGLPGIWS ARFSGLDATD QSNNAKLLHE LAMVFDIKDR SAQFHTTLVV AAPDKESLVV EADWSGYIDF APKGNNGFGY DPLFLVGETG KTAAELSNHE KNIISHRGQA VKKLMEVFPA WQNAH
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	36,398 Da
Sequence Positions	1-325, 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 Q8DSQ6
Species	Streptococcus mutans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SMU_1717c recombinant protein	MBS1285777 is a recombinant protein targeting SMU_1717c. Also known as Recombinant Streptococcus mutans Non-canonical purine NTP pyrophosphatase (SMU_1717c). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SMU_1717c 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 SMU_1717c. It may not necessarily be applicable to this product.

NCBI GI #	24380091
NCBI GeneID	1028805
NCBI Accession #	NP_722046.1

UniProt Primary Accession #	Q8DSQ6
UniProt Related Accession #	Q8DSQ6
GenBank Nucleotide #	NC_004350.2
NCBI Official Full Name	deoxyribonucleotide triphosphate pyrophosphatase/hypothetical protein
NCBI Official Symbol	SMU_1717c
UniProt Protein Name	dITP/XTP pyrophosphatase
UniProt Synonym Protein Names	Non-canonical purine NTP pyrophosphatase
UniProt Gene Name	SMU_1717c
UniProt Synonym Gene Names	NTPase
NCBI Protein Information	deoxyribonucleotide triphosphate pyrophosphatase/hypothetical protein
UniProt Comments for SMU_1717c	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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