Probable N-Glycosylase/DNA Lyase (Mth_1342) (MTH_1342) Methanothermobacter Thermautotrophicus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable N-glycosylase/DNA lyase (MTH_1342), Recombinant Protein
Full Product Name	Recombinant Methanothermobacter thermautotrophicus Probable N-glycosylase/DNA lyase (MTH_1342)
Product Gene Name	MTH_1342 recombinant protein
Product Synonym Names	Probable N-glycosylase/DNA lyase; Including the following 2 domains:; 8-oxoguanine DNA glycosylase; EC=3.2.2.-; DNA-(apurinic or apyrimidinic site) lyase; AP lyase; EC=4.2.99.18
Sequence	MRIPVGDFDL EMTQRSGQTS QPPWREVEGA FRELLIIEGV PCPVEVRNEA GVLRVRPYVD VPQKTLREKI EYIFDLKFDI EDFYTFLEDK NLSYTLDSSR GLRLFLAKDP FECVISSIAS ANCSVVRWTR SIEDIRRLWG QANTFNGETF HTFPSPHVLT GVAEGSLEDL QRAEDNLPSD FSFNDLRSCG VGYRAPYIRE TSRILAEEMD IRRIDGMDYD DARELLLELS GVGPKVADCI LLYGFRKTEA FPVDVWIRRI MNHIHPGRNF NDRSMVEFAR REYGEMADYV QLYLFNHARR SGLLDRLRQG TG
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	36,052 Da
Sequence Positions	1-312aa; 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 O27397
Species	Methanothermobacter thermautotrophicus (strain 29096 / DSM 1053 / JCM 10044 / NBRC 100330 / Delta H) (Methanobacterium thermoautotrophicum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MTH_1342 recombinant protein	MBS1257937 is a recombinant protein targeting MTH_1342. Also known as Recombinant Methanothermobacter thermautotrophicus Probable N-glycosylase/DNA lyase (MTH_1342). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MTH_1342 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 MTH_1342. It may not necessarily be applicable to this product.

NCBI GI #	15679342
NCBI GeneID	1471059

NCBI Accession #	NP_276459.1
UniProt Primary Accession #	O27397
UniProt Related Accession #	O27397
GenBank Nucleotide #	NC_000916.1
NCBI Official Full Name	8-oxoguanine DNA glycosylase
NCBI Official Symbol	MTH1342
UniProt Protein Name	Probable N-glycosylase/DNA lyase
UniProt Gene Name	MTH_1342
UniProt Synonym Gene Names	AP lyase
UniProt Entry Name	OGG1_METTH
NCBI Protein Information	8-oxoguanine DNA glycosylase
UniProt Comments for MTH_1342	DNA repair enzyme that incises DNA at 8-oxoG residues. Excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N-methylformamidopyrimidine (FAPY) from damaged DNA. Has a beta-lyase activity that nicks DNA 3' to the lesion ().
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