

Recombinant Human 5',3'-Nucleotidase, Mitochondrial, His-tagged

Cat. No. NT5M-1722H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanNT5M protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Human
Source	Human
Description	NT5M, also known asDNT2, belongs to the 5"(3")-deoxyribonucleotidase family. It localizes to themitochondrial matrix. This enzyme dephosphorylates the 5"- and2"(3")-phosphates of uracil and thymine deoxyribonucleotides. The gene islocated on chromosome 17 p11.2 in the critical region deleted in theSmith-Magenis syndrome (SMS), a genetic disease of unknown etiology.
Concentration	0.5 mg/ml
Form	Supplied as a liquidin 20 mM Tris-HCl buffer, pH 8.0, with 20% glycerol, 0.1 M NaCl and 1 mM DTT.
Purity	> 98% pure bySDS-PAGE
Sequence	32-228 amino acids:MGSSHHHHHH SSGLVPRGSH MGGRALRVLV DMDGVLADFE GGFLRKFRAR FPDQPFIALE DRRGFVWSEQYGRLRPLSE KAISIWESKN FFFELEPLPG AVEAVKEMAS LQNTDVFICT SPIKMFKYCP YEKYAWVEKYFGPDFLEQIV LTRDKTVVSA DLLIDDRPDI TGAEPTPSWE

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	HVLFTACHNQ HLQLQPPRRR LHSWADDWKAILDS
Molecular Mass	25.1 kDa
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage. Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	NT5M
nullValue_other	Q9NPB1

GENE INFORMATION

Gene Name	NT5M 5",3"-nucleotidase,mitochondrial [Homo sapiens]
Synonyms	NT5M;5",3"-nucleotidase, mitochondrial; mdN; dNT2; dNT-2;5"(3")-deoxyribonucleotidase, mitochondrial; OTTHUMP00000065515;deoxy-5"-nucleotidase 2; 5(3)-deoxyribonucleotidase; mitochondrial 5"nucleotidase; 5"nucleotidase, mitochondrial; EC 3.1.3.5
Gene ID	56953
mRNA Refseq	NM_020201
Protein Refseq	NP_064586
MIM	605292
Chromosome Location	17p11.2

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Pathway	Metabolic pathways;Metabolism of nucleotides; Nicotinate and nicotinamide metabolism; Purinemetabolism; Pyrimidine catabolism; Pyrimidine metabolism
Function	phosphataseactivity; nucleotide binding; nucleotidase activity; metal ion binding;hydrolase activity; 5"-nucleotidase activity

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