

Recombinant Human NT5M, His-tagged

Cat. No. NT5M-29347TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human NT5M (amino acids 32-171) with a N terminal His tag. 218 amino acids with a predicted MWt 25.1 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	197 amino acids
Description	This gene encodes a 5 nucleotidase that localizes to the mitochondrial matrix. This enzyme dephosphorylates the 5- and 2(3)-phosphates of uracil and thymine deoxyribonucleotides. The gene is located within the Smith-Magenis syndrome region on chromosome 17.
Conjugation	HIS
Molecular Weight	25.100kDa inclusive of tags
Tissue specificity	Highly expressed in heart, brain and skeletal muscle. Detected at very low levels in kidney and pancreas.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.58% Sodium chloride, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMGGRALRVLVDMDGVLADFE GGFLRKFRARFPDQ PFIALEDRRGFVWSEQYGRRLRPL SEKAISIWESKNFFFELEPLPGAVEAVKEMASL QNTDVFI CTSPIKMFKYCPYEKYAWVEKYFGPDFLEQIVLTRDKT VVSADLLIDDRP DITGAEPTPSWEHVLFTACHNQHLQLQP PRRRLHSWADDWKAILDSKRPC
Sequence Similarities	Belongs to the 5(3)-deoxyribonucleotidase family.

GENE INFORMATION

Gene Name	NT5M 5,3-nucleotidase, mitochondrial [Homo sapiens]
Official Symbol	NT5M
Synonyms	NT5M; 5,3-nucleotidase, mitochondrial; 5 nucleotidase, mitochondrial; 5(3)-deoxyribonucleotidase, mitochondrial; dNT 2; dNT2; mdN;
Gene ID	56953
mRNA Refseq	NM_020201
Protein Refseq	NP_064586
MIM	605292

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Uniprot ID	Q9NPB1
Chromosome Location	17p11.2
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem;
Function	5-nucleotidase activity; 5-nucleotidase activity; hydrolase activity; metal ion binding; nucleotidase activity;

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