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**Product Data Sheet**


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Product Name: NT5M Human  
 Cat. No.: GP22015  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	5'(3')-deoxyribonucleotidase mitochondrial; 5';3'-nucleotidase; mitochondrial; Deoxy-5'-nucleotidase 2; dNT-2; NT5M; DNT2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGGRALRVLV DMDGVLADFE GGFLRKFRAR FPDQPFIALE DRRGFVWSEQ YGRLRPGLSE KAISIWESKN FFFELEPLPG AVEAVKEMAS LQNTDVFICT SPIKMFKYCP YEKYAWVEKY FGPDFLEQIV LTRDKTVVSA DLLIDDRPDI TGAEPTPSWE HVLFTACHNQ HLQLQPPRRR LHSWADDWKA ILDSKRPC.		
Formulation	NT5M protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

**Introduction**

NT5M is a member of the 5'(3')-deoxyribonucleotidase family. NT5M localizes to the mitochondrial matrix. The NT5M enzyme dephosphorylates the 5'- and 2'(3')-phosphates of uracil and thymine deoxyribonucleotides. The NT5M gene is located on chromosome 17 p11.2 in the critical region deleted in the Smith-Magenis syndrome (SMS), a genetic disease of unidentified etiology.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

NT5M Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 218 amino acids (32-228 a.a.) and having a molecular mass of 25.1kDa. NT5M is fused to a 21 amino acid His-tag at N-terminus & purified by

**Caution: Product has not been fully validated for medical applications. For research use only.**

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proprietary chromatographic techniques.

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