

## NT5M Human

**Description:** 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 proprietary chromatographic techniques.

**Catalog #:** ENPS-167

For research use only.

**Synonyms:** 5'(3')-deoxyribonucleotidase mitochondrial, 5',3'-nucleotidase, mitochondrial, Deoxy-5'-nucleotidase 2, dNT-2, NT5M, DNT2.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGGRALRVLV DMDGVLADFE  
GGFLRKFRAR FPDQPFIALE DRRGFVVSEY YGRLRPGLSE KAISIWESKN FFFELEPLPG  
AVEAVKEMAS LQNTDVFICT SPIKMFKYCP YEKYAWVEKY FGPDFLEQIV LTRDKTVVSA  
DLLIDDRPDI TGAEPTPSWE HVLFTACHNQ HLQLQPPRRR LHSWADDWKA ILDSKRPC.

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

NT5M protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.

**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.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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