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# Recombinant human NT5M protein

Catalog Number: ATGP1164

### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

32-228aa

#### UniProt No.

O9NPB1

#### **NCBI Accession No.**

NP 064586.1

#### **Alternative Names**

5' (3')-deoxyribonucleotidase mitochondrial, 5' (3')-deoxyribonucleotidase, mitochondrial, DNT2

# **PRODUCT SPECIFICATION**

#### **Molecular Weight**

25.1 kDa (218aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

NT5M, also known as DNT2, belongs to the 5' (3') -deoxyribonucleotidase family. It localizes to the mitochondrial matrix. This enzyme dephosphorylates the 5'- and 2' (3') -phosphates of uracil and thymine deoxyribonucleotides. The gene is located on chromosome 17 p11. 2 in the critical region deleted in the Smith-Magenis syndrome (SMS), a genetic disease of unknown etiology. Recombinant human NT5M protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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# **Amino acid Sequence**

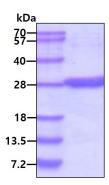
<MGSSHHHHHH SSGLVPRGSH M>GGRALRVLV DMDGVLADFE GGFLRKFRAR FPDQPFIALE DRRGFWVSEQ YGRLRPGLSE KAISIWESKN FFFELEPLPG AVEAVKEMAS LQNTDVFICT SPIKMFKYCP YEKYAWVEKY FGPDFLEQIV LTRDKTVVSA DLLIDDRPDI TGAEPTPSWE HVLFTACHNQ HLQLQPPRRR LHSWADDWKA ILDSKRPC

#### **General References**

Rampazzo C., et al. (2000) Proc. Natl. Acad. Sci. u.S.A. 97:8239-8244 Rinaldo-Matthis A., et al. (2002) Nat. Struct. Biol. 9:779-787

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

