

Recombinant human NT5M protein

Catalog Number: ATGP1164

PRODUCT INFORMATION

Expression system

E.coli

Domain

32-228aa

UniProt No.

Q9NPB1

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

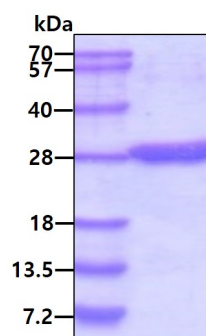
General References

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.