

Recombinant human NT5C3B protein

Catalog Number: ATGP2887

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-300aa

UniProt No.

Q969T7

NCBI Accession No.

NP_443167

Alternative Names

7-methylguanosine phosphate-specific 5'-nucleotidase, NT5C3L

PRODUCT SPECIFICATION

Molecular Weight

36.8 kDa (323aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity

> 85% 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

NT5C3B, also known 7-methylguanosine phosphate-specific 5'-nucleotidase, includes transferase activity and nucleotide binding. Among its related super-pathways are adenosine nucleotides degradation II and Pyrimidine metabolism. Specifically it hydrolyzes 7-methylguanosine monophosphate (m (7) GMP) to 7-methylguanosine and inorganic phosphate. The specific activity for m (7) GMP may protect cells against undesired salvage of m (7) GMP and its incorporation into nucleic acids. Also it has weak activity for CMP. Recombinant human NT5C3B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAEEVST LMKATVLMRQ PGRVQEIVGA LRKGGGDRLQ VISDFDMTLS
RFAYNGKRCP SSYNILDNSK IISEEKRKEL TALLHHYPI EIDPHRTVKE KLPHMVEWWT KAHNLLCQQK IQKFQIAQVV
RESNAMLREG YKTFNTLYH NNIPLFIFSA GIGDILEEII RQMKVFHPNI HIVSNYMDFN EDGFLQGFKG QLIHTYNKNS
SACENSGYFQ QLEGKTNVIL LGDSIGDLTM ADGVPGVQNI LKIGFLNDKV EERRERYMDS YDIVLEKDET LDVVNGLLQH
ILCQGVQLEM QGP

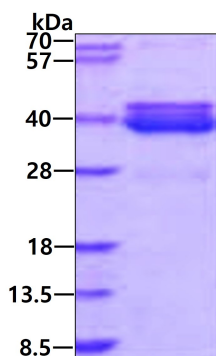
General References

Brieger A. et al. (2010) Proteomics. 10:3343-3355.

Aksoy P. et al. (2009) Pharmacogenet Genomics. 19:567-576.

DATA

SDS-PAGE



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