

Recombinant human NT5C2 protein

Catalog Number: ATGP1229

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-561aa

UniProt No.

P49902

NCBI Accession No.

NP_036361.1

Alternative Names

Cytosolic purine 5'-nucleotidase, cN-II, GMP. NT5B, PNT5

PRODUCT SPECIFICATION

Molecular Weight

67.1 kDa (581aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF

Purity

> 90% 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

NT5C2, also known as NT5B or PNT5, has an essential role in the maintenance of purine/pyrimidine nucleotides. It contains a phosphotransferase active site that catalyzes the dephosphorylation of 6-hydroxypurine nucleoside 5'-monophosphates. In addition, it regulates the level of inosine monophosphate (IMP) and guanosine monophosphate (GMP) pools within cells via hydrolysis. Recombinant human NT5C2 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

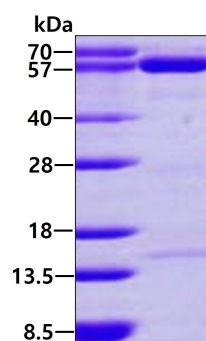
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PETREQYPNK FIQRDDTERF YILNTLFNLP ETYLLACLVD FFTNCPRYTS CETGFKDGD L FMSYRSMFQD VRDAVDWVHY
KGS LKEKTVE NLEKYVVKDG KLPLLLSRMK EVGKVFLATN SDYKYTDKIM TYLFD FPHGP KPGSSHRPWQ SYFDLILVDA
RKPLFFGEGT VLRQVDTKTG KLGIGTYTGP LQHGIVYSGG SSDTICDLLG AKGKDILYIG DHIFGDILKS KKRQGWRTFL
VIPELAQELH VWTDKSSLFE ELQSLDIFLA ELYKHL DSSS NERPDISSIQ RRIKKVTHDM DMCYGMMSGSL FRSGSRQTLF
ASQVMRYADL YAASFINLLY YPFSYLFRAA HVLMPHESTV EHTHVDINEM ESPLATRNRT SVDFKDDTDYK RHLTR SISE
IKPPNLFPLA PQEITHCHDE DDDEEEEEEE E

General References

Oka J. et al. (1994) Biochem. Biophys. Res. Commun. 205: 917-922.
Walde K. et al. (2007) J Biol Chem. 282: 17828-17836.

DATA

SDS-PAGE



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