

# Recombinant human NT5C2 protein

Catalog Number: ATGP1229

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

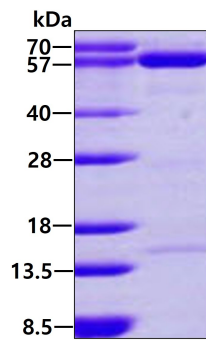
<MGSSHHHHHH SSGLVPRGSH> MSTSWSDRLQ NAADMPANMD KHALKKYRRE AYHRVFNRS LAMEKIKCFG  
FDMDYTLAVY KSPEYESLGF ELTVERLVS I GYPQELLSFA YDSTFPTRGL VFDTLYGNLL KVDAYGNLLV CAHG FNFIRG  
PETREQYPNK FIQRDDTERF YILNTLFNLP ETYLLACLVD FFTNCPRYTS CETGFKDGD L FMSYRSMFQD VRDAVDWVHY  
KGS LKEKTVE NLEKYVVKDG KLPLLLSRMK EVGKVFLATN SDYKYTDKIM TYLFD FPHGP KPGSSHRPWQ SYFDLILVDA  
RKPLFFGEGT VLRQVDTKTG KLGIGTYTGP LQHGIVYSGG SSDTICDLLG AKGKDILYIG DHIFGDILKS KKRQGWRTFL  
VIP ELAQELH 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 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.