

## Recombinant Human NT5C2 protein, GST-tagged

**Cat. No.** NT5C2-258H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human NT5C2 (1 a.a. - 561 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Length</b>   | 1-561 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Purine 5-prime-nucleotidase (EC 3.1.3.5) preferentially hydrolyzes inosine 5-prime-monophosphate (IMP) and other purine nucleotides, and is allosterically activated by various compounds, including ATP. The enzyme is exclusively located in the cytoplasmic matrix of cells and may have a critical role in the maintenance of a constant composition of intracellular purine/pyrimidine nucleotides in cooperation with other nucleotidases. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 87.45 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MSTWSDDLQNAADMPANMDKHALKKYRREAYHRVFNRLAMEKIKCFGDMDY<br>TLAVYKSPEYESLGFELTVE RLVSIGYPQELLSFAYDSTFPTRGLVFDTLTYGNLLKVD<br>AYGNLLVCAHGFNFIRGPETREQYPNKFQRRDTERF YILNTLFLNPETYLLACLVD<br>FTNCPRYTSCETGFKDGDLFMSYRSMFQDVRDAVDWVHYKGSLEKTVENLEKY V<br>VKDGKLPLLLSRMKEVGKVFLATNSDYKYTDKIMTYLFDLPHGPKPGSSHRPWQSY                                                                                                                                          |

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FDLILVDARKPLFFGEGT VLRQVDTKTGKLGKIGTYTGPLQHGIVYSGGSSDTICDLLG  
AKGKDILYIGDHIFGDILKSKKRQGWRTFLVIPEL AQELHVWTDKSSLFEELQSLDIFL  
AELYKHL DSSSNERPDISSIQRRIKKVTHDMDMCYGMMSLFRSGSRQTLF ASQVM  
RYADLYAASFINLLYYPFSYLFRAAHVLMPESTVEHETHVDINEMESPLATRNRTSVD  
FKD TDYKRHQLT RSISEIKPPNLFPLAPQEITHCHDEDDDEEEEEEEEE

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name**

NT5C2 5'-nucleotidase, cytosolic II [ Homo sapiens ]

**Official Symbol**

NT5C2

**Synonyms**

GMP; NT5B; PNT5; SPG45; SPG65; cN-II; cytosolic purine 5'-nucleotidase; 5'-  
nucleotidase (purine), cytosolic type B; IMP-specific 5'-NT; cytosolic 5'-nucleotidase II;  
purine 5' nucleotidase

**Gene ID**

22978

**mRNA Refseq**

NM\_012229

**Protein Refseq**

NP\_036361

**MIM**

600417

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|                            |                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | P49902                                                                                                                                                         |
| <b>Chromosome Location</b> | 10q24.32                                                                                                                                                       |
| <b>Pathway</b>             | Abacavir metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem |
| <b>Function</b>            | 5'-nucleotidase activity; 5'-nucleotidase activity; nucleoside phosphotransferase activity                                                                     |

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