

Recombinant Human 5'-Nucleotidase, Cytosolic II, His-tagged

Cat. No. NT5C2-2490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NT5C2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 67.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-561aa
Description	NT5C2 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol 0.1M NaCl,1mM DTT, 0.1mM PMSF.
Molecular Mass	67.1 kDa (581aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSTSWSDRLQ NAADMPANMD KHALKKYRRE AYHRVFNRS LAMEKIKCFG FDMDYTLAVY KSPEYESLGF ELTVERLVSI GYPQELLSFA YDSTFPTRGL VFDTLYGNLL KVDAYGNLLV CAHGFnFIRG PETREQYPNK FIQRDDTERF YILNTLFNLP ETYLLACLVD FFTNCPRYTS CETGFKDGD L FMSYRSMFQD VRDAVDWVHY KGSLKEKTVE NLEKYVVKDG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KLPLLLSRMK EVGKVFLATN SDYKYTDKIM TYLFDFPHGP KPGSSHRPWQ
 SYFDLILVDA RKPLFFGEGT VLRQVDTKTG KLKIGITYTGP LQHGIVYSGG
 SSDTICDLLG AKGKDILYIG DHIFGDILKS KKRQGWRTFL VIPELAQELH
 VWTDKSSLFE ELQSLDIFLA ELYKHLDDSS NERPDISSIQ RRIKKVTHDM
 DMCYGMMGSL FRSGSRQTLF ASQVMRYADL YAASFINLLY YPFSYLFRAA
 HVLMPESTV EHTHVDINEM ESPLATRNRT SVDFKDTDYK RHQLTRISE
 IKPPNLFPLA PQEITHCHDE DDDEEEEEEE E

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [NT5C2 5-nucleotidase, cytosolic II \[Homo sapiens \]](#)

Official Symbol NT5C2

Synonyms NT5C2; 5-nucleotidase, cytosolic II; 5 nucleotidase (purine), cytosolic type B , NT5B; cytosolic purine 5-nucleotidase; cN II; GMP; PNT5; purine 5 nucleotidase; IMP-specific 5-NT; cytosolic 5-nucleotidase II; 5-nucleotidase (purine), cytosolic type B; NT5B; cN-II;

Gene ID [22978](#)

mRNA Refseq [NM_001134373](#)

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Protein Refseq	NP_001127845
MIM	600417
UniProt ID	P49902
Chromosome Location	10q24.32
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem; Purine catabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem;
Function	5-nucleotidase activity; hydrolase activity; metal ion binding; nucleotide binding; protein binding;