

## NT5C2 Human

**Description:** NT5C2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 581 amino acids (1-561 a.a.) and having a molecular mass of 67.1kDa. NT5C2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-180

For research use only.

**Synonyms:** Cytosolic purine 5'-nucleotidase, Cytosolic 5'-nucleotidase II, NT5C2, NT5B, NT5CP, PNT5, GMP, cN-II.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSTSWSDRLQ NAADMPANMD  
KHALKKYRRE AYHRVFNRS LAMEKIKCFG FDMDYTLAVY KSPEYESLGF ELTVERLVSI  
GYPQELLSFA YDSTFPTRGL VFDTLYGNLL KVDAYGNLLV CAHGFFNFIRG PETREQYPNK  
FIQRDDTERF YILNTLFNLP ETYLLACLVD FFTNCPRYTS CETGFKDGD L FMSYRSMFQD  
VRDAVDWVHY KG

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

NT5C2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

NT5C2 (NT5B/PNT5) has a vital role in the maintenance of purine/pyrimidine nucleotides. NT5C2 contains a phosphotransferase active site which catalyzes the dephosphorylation of 6-hydroxypurine nucleoside 5'-monophosphates. Furthermore, NT5C2 regulates the level of inosine monophosphate (IMP) and guanosine monophosphate (GMP) pools inside cells by way of hydrolysis.

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