
Product Data Sheet

Product Name: NT5C2 Human

Cat. No.: GP22013

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytosolic purine 5'-nucleotidase; Cytosolic 5'-nucleotidase II; NT5C2; NT5B; NT5CP; PNT5; GMP; cN-II.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSTSWSDRLQ NAADMPANMD KHALKKYRRE AYHRVFNRS LAMEKIKCFG FDMDYTLAVY KSPEYESLGF ELTVERLVSI GYPQELLSFA YDSTFPTRGL VFDTLYGNLL KVDAYGNLLV CAHGFNFIRG PETREQYPNK FIQRDDTERF YILNTLFNLP ETYLLACLVD FFTNCPRYTS CETGFKDGDG FMSYRSMFQD VRDAVDWVHY KGSLKEKTVE NLEKYVVKDG KLPLLLSRMK EVGKVFLATN SDYKYTDKIM TYLDFDFPHGP KPGSSHRPWQ SYFDLILVDA RKPLFFGEGT VLRQVDTKTG KLGIGTYTGP LQHGIVYSGG SSDTICDLLG AKGKDILYIG DHIFGDILKS KKRQGWRTFL VIPELAQELH VWTDKSSLFE ELQSLDIFLA ELYKHLDSST NERPDISSIQ RRIKKVTHDM DMCYGMMSGSL FRSGSRQTLF ASQVMRYADL YAASFINLLY YPFSYLFRAA HVLMPHESTV EHTHVDINEM ESPLATRNRT SVDFKDTDYK RHQLTRSISE IKPPNLFPLA PQEITHCHDE DDDEEEEEEE E.		
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.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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