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AR50054PU-N Human NT5C2 (1-561, His-tag) - Purified

Alternate names: Cytosolic purine 5'-nucleotidase, NT5B, NT5CP, PNT5

Quantity: 0.5 mg

Concentration: 0.5 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P49902

NCBI: NP_036361.1

GeneID: 22978

Species: Human

Source: E. coli

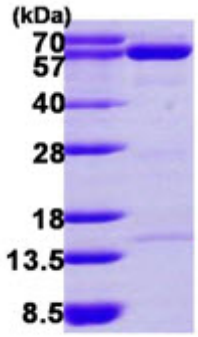
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.1M NaCl,1mM DTT, 0.1mM PMSF

Description: Recombinant human NT5C2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MSTSWSDRLQ NAADMPANMD KHALKKYRRE AYHRVFVNRS
LAMEKIKCFG FDMDYTLAVY KSPEYESLGF ELTVERLVSI GYPQELLSFA YDSTFPTRGL
VFDTLYGNLL KVDAYGNLLV CAHGFNFIRG PETREQYPNK FIQRDDTERF YILNTLFNLP
ETYLLACLVD FFTNCPRYTS CETGFKDGDL FMSYRSMFQD VRDAVDWVHY KGSLKEKTVE
NLEKYVVKDG KLPLLLSRMK EVGKVFLATN SDYKYTDKIM TYLFDFPHGP KPGSSHRPWQ
SYFDLILVDA RKPLFFGEGT VLRQVDTKTG KLKIGTYTGP LQHGIVYSGG SSDTICDLLG
AKGKDILYIG DHIFGDILKS KKRQGWRTFL VIPELAQELH VWTDKSSLFE ELQSLDIFLA
ELYKHLDSSS NERPDISSIQ RRIKKVTHDM DMCYGMMGSL FRSGSRQTLF ASQVMRYADL
YAASFINLLY YPFSYLFRAA HVLMPHESTV EHTHVDINEM ESPLATRNRT SVDFKDTDYK
RHQLTRSISE IKPPNLFPLA PQEITHCHDE DDDEEEEEEE E
Molecular weight: 67.1 kDa (581aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Oka J. et al. (1994) Biochem. Biophys. Res. Commun. 205: 917-922.Wallde K. et al. (2007) J Biol Chem. 282: 17828-17836.

Pictures:



15% SDS-PAGE (3ug)