

Recombinant Human 5"-nucleotidase, cytosolic IIIB, His-tagged

NT5C3B-664H Human

Lot. No. (See product label)

Specification

Product Overview	NT5C3B, 1-300aa Human, His tag, E.coli
Description	NT5C3B, also known 7-methylguanosine phosphate-specific 5'-nucleotidase, includes transferase activity and nucleotide binding. Among its related super-pathways are adenosine nucleotides degradation II and Pyrimidine metabolism. Specifically it hydrolyzes 7-methylguanosine monophosphate (m(7)GMP) to 7-methylguanosine and inorganic phosphate. The specific activity for m(7)GMP may protect cells against undesired salvage of m(7)GMP and its incorporation into nucleic acids. Also it has weak activity for CMP. Recombinant human NT5C3B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Source	E.coli
Species	Human
Tag	His-tag
Form	Liquid. Phosphate Buffered Saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	36.8 kDa(323aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHHH SSGLVPRGSH MGSMAEEVST LMKATVLMRQ PGRVQEIVGA LRKGGGDR LQ VISDFDMTSL RFAYNGKRCP SSYNILDNSK IISEECKERL TALLHHYYP I EIDPHRTVKE KLPHMVEWWT KAHNLLCQQK IQKFQIAQVV RESNAMLRG YKTFNTLYH NNIPLFIFSA GIGDILEEII RQMKVFHPNI HIVSNYMDFN EDGFLQGFKG QLIHTYNKNS SACENSGYFQ QLEGKTNVIL LGDSIGDLTM ADGVPGVQNI LKIGFLNDKV EERRERYMDS YDIVLEKDET LDVVNGLLQH ILCQGVQLEM QGP
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

Gene Information

Gene Name	NT5C3B 5"-nucleotidase, cytosolic IIIB [Homo sapiens (human)]
Official Symbol	NT5C3B
Synonyms	NT5C3B; NT5C3L; 5'-nucleotidase, cytosolic IIIB; 7-methylguanosine phosphate-specific 5'-nucleotidase; cN-III-like protein; cytosolic 5'-nucleotidase 3B; 7-methylguanosine nucleotidase; 5'-nucleotidase, cytosolic III-like; N(7)-methylguanylate 5'-phosphatase; cytosolic 5'-nucleotidase III-

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like protein; NP_443167.4; EC 3.1.3.5; EC 3.1.3.91

Gene ID [115024](#)

mRNA Refseq [NM_052935](#)

Protein Refseq [NP_443167](#)

UniProt ID [Q969T7](#)

Chromosome Location 17q21.2

Pathway Nicotinate and nicotinamide metabolism; Purine metabolism; Pyrimidine metabolism

Function 5'-nucleotidase activity; magnesium ion binding; nucleotide binding

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