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

Cat. No. NT5C3B-664H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NT5C3B, 1-300aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-300 a.a.
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.
Form	Liquid. Phosphate Buffered Saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	36.8 kDa(323aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAEEVST LMKATVLMRQ PGRVQEIVGA LRKGGGDRLQ VISDFDMTLS RFAYNGKRCP SSYNILDNSK IISEECRKEL TALLHHYYPI EIDPHRTVKE KLPHMVEWWT KAHNLLCQQK IQKFQIAQVV

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

	RESNAMLREG YKTFFNTLYH 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-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

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

Chromosome Location	17q21.2
Pathway	Nicotinate and nicotinamide metabolism; Purine metabolism; Pyrimidine metabolism
Function	5''-nucleotidase activity; magnesium ion binding; nucleotide binding

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