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**Product Data Sheet**


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Product Name: NT5C3B Human

Cat. No.: GP22014

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NT5C3L; 7-methylguanosine phosphate-specific 5'-nucleotidase; Cytosolic 5'-nucleotidase 3B; Cytosolic 5'-nucleotidase III-like protein; cN-III-like protein; N(7)-methylguanylate 5'-phosphatase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAEEVST LMKATVLMRQ PGRVQEIVGA LRKGGGDRQLQ VISDFDMTLRFRAYNGKRCP SSYNILDNSK IISECRKEL TALLHHYYPI EIDPHRTVKE KLPHMVEWWT KAHNLLCQQKIQKFQIAQVV RESNAMLREG YKTFNTLYH NNIPLFIFSA GIGDILEEII RQMKVFHPNI HIVSNYMDFNEDGFLQGFKG QLIHTYNKNS SACENSGYFQ QLEGKTNVIL LGDSIGDLTM ADGVPGVQNI LKIGFLNDKVEERRERYMDS YDIVLEKDET LDVVNGLLQH ILCQGVQLEM QGP.		
Formulation	NT5C3B protein solution (1mg/ml) containing Phosphate Buffered Saline (pH7.4), 20% glycerol and 1mM DTT.		

**Introduction**

7-methylguanosine phosphate-specific 5'-nucleotidase (NT5C3B) includes transferase activity and nucleotide binding. Among NT5C3B's related super-pathways are adenosine nucleotides degradation II and Pyrimidine metabolism. NT5C3B hydrolyzes 7-methylguanosine monophosphate (m(7)GMP) to 7-methylguanosine and inorganic phosphate. The specific activity for m(7)GMP guards cells against undesired retrieval of m(7)GMP and its incorporation into nucleic acids. In addition, NT5C3B has weak activity for CMP.

**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%

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NT5C3B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 323 amino acids (1-300 a.a) and having a molecular mass of 36.8kDa. NT5C3B is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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