

NT5C1A Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71849
Synonyms:	5' nucleotidase cytosolic IA; CN IA; Cytosolic 5' nucleotidase 1A; cytosolic; IA
Species:	Human
Source:	P. pastoris
Accession:	Q9BXI3 (1M-368Q)
Gene ID:	84618
Molecular Weight:	Approximately 43.0 kDa

PROPERTIES

AA Sequence	<pre> MEPGQPREPQ EPREPGPGA E TAAAPVWEEA KIFYDNLAPK KKPKSPKPQN AVTIAVSSRA LFRMDEEQQI YTEQGVVEEYV RYQLEHENEP FSPGPAFPFV KALEAVNRRL RELYPDSEDV FDIVLMTNNH AQVGVRLINS INHYDLFIER FCMTGGNSPI CYLKAYHTNL YLSADA EKVR EAIDEGIAAA TIFSPSRD VV VSQSQLRVA F DGD AVLFSDE SERIVKAHGL DRFFEHEKAH ENKPLAQGPL KGFLEALGRL QKKFYSKGLR LECPIRTYLV TARSAASSGA RALKTLRSWG LETDEALFLA GAPKGPLLEK IRPHIFFDDQ MFHVAG AQEM GTVA AHVPYG VAQT PRRTAP AKQAPSAQ </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	NT5C1A, also known as cytosolic purine 5'-nucleotidase, is an enzyme that catalyzes the hydrolysis of ribonucleotide and deoxyribonucleotide monophosphates. In this process, inorganic phosphate and the corresponding nucleoside are released. While adenosine monophosphate (AMP) is the primary substrate, NT5C1A can also hydrolyze other nucleotides,
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including deoxycytidine monophosphate (dCMP) and inosine monophosphate (IMP). This enzymatic activity is crucial for the regulation of nucleotide pools, contributing to the maintenance of cellular homeostasis by controlling the levels of nucleoside monophosphates. It has to highlight NT5C1A's versatility in hydrolyzing different substrates, emphasizing its role in nucleotide metabolism.

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

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