

CD73/5'-Nucleotidase Protein, Human (T376A, M379T, HEK293, His)

Cat. No.:	HY-P70492
Synonyms:	5'-Nucleotidase; 5'-NT; Ecto-5'-Nucleotidase; CD73; NT5E; NT5; NTE
Species:	Human
Source:	HEK293
Accession:	P21589 (W27-K547, T376A, M379T)
Gene ID:	4907
Molecular Weight:	Approximately 62.0 kDa

PROPERTIES

AA Sequence

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W E L T I L H T N D   V H S R L E Q T S E   D S S K C V N A S R   C M G G V A R L F T
K V Q Q I R R A E P   N V L L L D A G D Q   Y Q G T I W F T V Y   K G A E V A H F M N
A L R Y D A M A L G   N H E F D N G V E G   L I E P L L K E A K   F P I L S A N I K A
K G P L A S Q I S G   L Y L P Y K V L P V   G D E V V G I V G Y   T S K E T P F L S N
P G T N L V F E D E   I T A L Q P E V D K   L K T L N V N K I I   A L G H S G F E M D
K L I A Q K V R G V   D V V V G G H S N T   F L Y T G N P P S K   E V P A G K Y P F I
V T S D D G R K V P   V V Q A Y A F G K Y   L G Y L K I E F D E   R G N V I S S H G N
P I L L N S S I P E   D P S I K A D I N K   W R I K L D N Y S T   Q E L G K T I V Y L
D G S S Q S C R F R   E C N M G N L I C D   A M I N N N L R H A   D E T F W N H V S M
C I L N G G G I R S   P I D E R N N G T I   T W E N L A A V L P   F G G T F D L V Q L
K G S T L K K A F E   H S V H R Y G Q S T   G E F L Q V G G I H   V V Y D L S R K P G
D R V V K L D V L C   T K C R V P S Y D P   L K M D E V Y K V I   L P N F L A N G G D
G F Q M I K D E L L   R H D S G D Q D I N   V V S T Y I S K M K   V I Y P A V E G R I
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Biological Activity Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-monophosphate (AMP). The specific activity is >13000 pmol/min/μg.

Appearance Solution.

Formulation Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 120 mM NaCl, 4 mM CaCl₂, 20% Glycerol, pH 7.5.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution N/A

Storage & Stability Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping Shipping with dry ice

DESCRIPTION

Background

The CD73/5'-Nucleotidase protein assumes a crucial role in cellular processes by catalyzing the hydrolysis of nucleotide monophosphates, releasing inorganic phosphate and the corresponding nucleoside. Notably, AMP stands out as the preferred substrate for this enzyme, emphasizing its significance in the conversion of adenylate nucleotides. CD73/5'-Nucleotidase exhibits a preference for ribonucleotide monophosphates over their deoxyribose counterparts, showcasing its selectivity in substrate recognition. In addition to AMP, other substrates include IMP, UMP, GMP, CMP, dAMP, dCMP, dTMP, NAD, and NMN, further illustrating the versatility of CD73/5'-Nucleotidase in nucleotide metabolism and its role in regulating the balance of nucleotide pools within the cell.

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

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