

CD73/5'-Nucleotidase Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P77534
Synonyms:	5-NT; 5'-Nucleotidase; CD73; E5NT; NT5E; NTE
Species:	Human
Source:	HEK293
Accession:	P21589 (W27-K547)
Gene ID:	4907
Molecular Weight:	Approximately 59.2 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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	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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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