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# CD73

Catalog # PVGS1627

## Product Information

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| **Primary Accession** | P21589 |
| **Species** | Human |
| **Sequence** | Trp27-Lys547 |
| **Purity** | > 95% as analyzed by SDS-PAGE<br>> 95% as analyzed by HPLC |
| **Endotoxin Level** | ≤ 1 EU/ μg of protein by LAL method |
| **Biological Activity** | Immobilized Human CD73, His at 0.5 μg/ml (100 μl/Well). Dose response curve for Anti-CD73 Ab with the $EC_{50}$ of 19.3 ng/ml determined by ELISA. |
| **Expression System** | Expi293 |
| **Formulation** | Supplied as a 0.22 μm filtered solution in 20 mM Tris, 120 mM NaCl, 4 mM CaCl2, 20% glycerol, pH 7.5. |
| **Storage & Stability** | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Avoid repeated freeze-thaw cycles. |

## Additional Information

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| **Gene ID** | 4907 |
| **Other Names** | 5'-nucleotidase, 5'-NT, 3.1.3.35, 3.1.3.5, 3.1.3.89, 3.1.3.91, 3.1.3.99, 5'-deoxynucleotidase, Ecto-5'-nucleotidase, IMP-specific 5'-nucleotidase, Thymidylate 5'-phosphatase, CD73, NT5E, NT5, NTE |
| **Target Background** | CD73, also known as ecto-5'-nucleotidase, is an enzyme that in humans is encoded by the NT5E gene.CD73 commonly serves to convert AMP to adenosine.The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. A deficiency of CD73 occurs in a variety of immunodeficiency diseases. |

## Protein Information

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| **Name** | NT5E |
| **Synonyms** | NT5, NTE |

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| **Function** | Catalyzes the hydrolysis of nucleotide monophosphates, releasing inorganic phosphate and the corresponding nucleoside, with AMP being the preferred substrate (PubMed:21933152, PubMed:22997138, PubMed:23142347, PubMed:24887587, PubMed:34403084). Shows a preference for ribonucleotide monophosphates over their equivalent deoxyribose forms (PubMed:34403084). Other substrates include IMP, UMP, GMP, CMP, dAMP, dCMP, dTMP, NAD and NMN (PubMed:21933152, PubMed:22997138, PubMed:23142347, PubMed:24887587, PubMed:34403084). |
| **Cellular Location** | Cell membrane; Lipid-anchor, GPI-anchor |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.