10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD73

Catalog # PVGS1627

Specification

CD73 - Product Information

Primary Accession	P21589

Species
Human

Sequence
Trp27-Lys547

Purity
> 95% as analyzed by SDS-PAGE
> 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 EC₅₀ 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.

CD73 - Additional Information

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.

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CD73 - Protein Information

Name NT5E

Synonyms NT5, NTE

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

CD73 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD73 - Images