Human CD73/NT5E Protein

Cat. No. CD7-HM273



Description	
Source	Recombinant Human CD73/NT5E Protein is expressed from HEK293 with hFC tag at the C-Terminus.
	It contains Trp27-Lys547.
Accession	P21589-1
Molecular Weight	The protein has a predicted MW of 84.5 kDa. Due to glycosylation, the protein migrates to 85-100 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in 20mM Tris, 120mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend

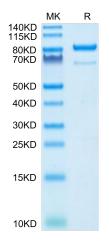
Background

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.

to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

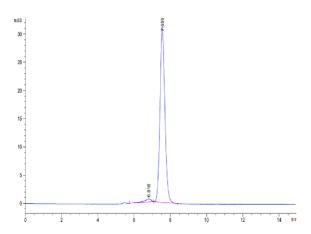
Assay Data

Bis-Tris PAGE



Human CD73 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human CD73 is greater than 95% as determined by SEC-HPLC.

Human CD73/NT5E Protein

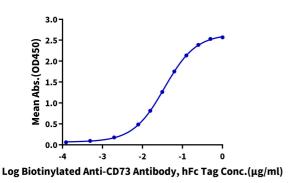
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Assay Data

ELISA Data

Human CD73, hFc Tag ELISA 0.2μg Human CD73, hFc Tag Per Well



Immobilized Human CD73, hFc Tag at $2\mu g/ml$ (100 μ l/well) on the plate. Dose response curve for Biotinylated Anti-CD73 Antibody, hFc Tag with the EC50 of 35.3ng/ml determined by ELISA (QC Test).

Bioactivity Data

Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-monophosphate (AMP). The specific activity is >10000 pmol/min/ μ g (QC Test).