Human CD73/NT5E Protein

Cat. No. CD7-HM173

Description

Source	Recombinant Human CD73/NT5E Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Trp27-Lys547.
Accession	P21589-1
Molecular Weight	The protein has a predicted MW of 58.8 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

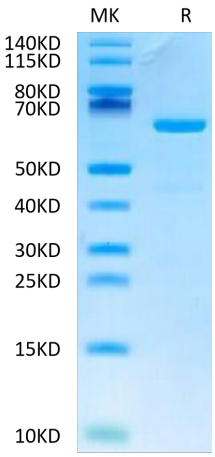
Formulation	Lyophilized from 0.22μm filtered solution in 20mM Tris, 120mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

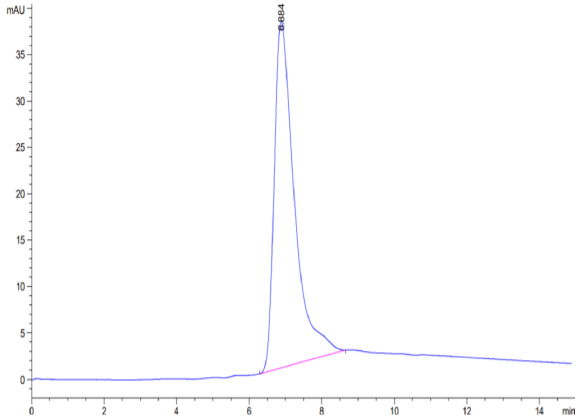
Assay Data

Tris-Bis PAGE



Human CD73 on Tris-Bis 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.

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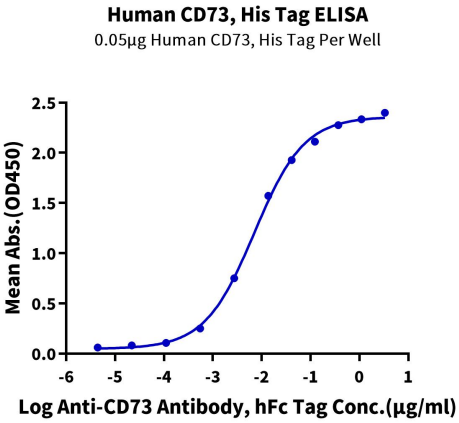
Assay Data

ELISA Data



Immobilized Human CD73, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-CD73 Antibody, hFc Tag with the EC50 of 7.4ng/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 >15000 pmol/min/μg (QC Test).