

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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

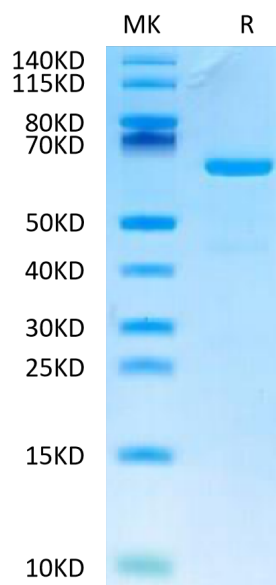
Formulation	Lyophilized from 0.22µm filtered solution in 20mM Tris, 120mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

Bis-Tris PAGE



Human CD73 on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

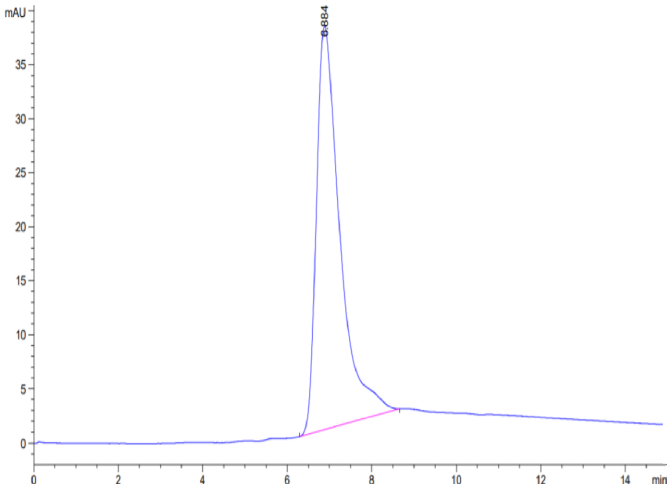
SEC-HPLC

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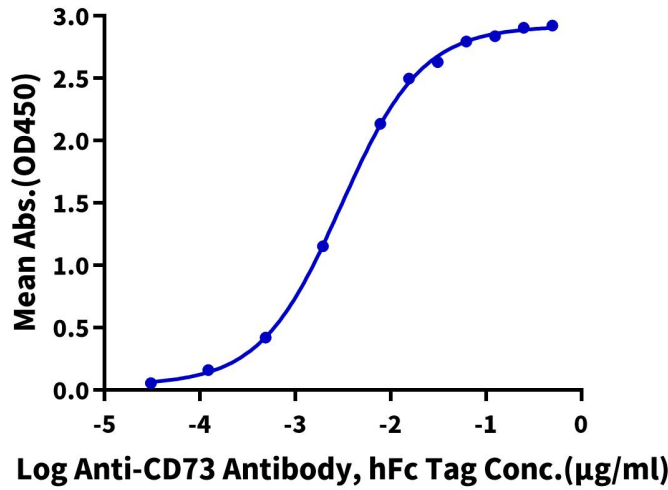
Assay Data



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

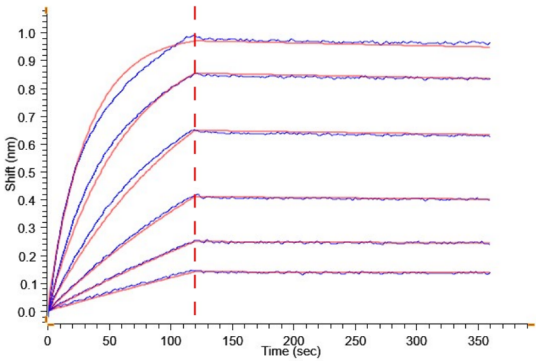
ELISA Data

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



Immobilized Human CD73, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD73 Antibody, hFc Tag with the EC50 of 3.0ng/ml determined by ELISA (QC Test).

BLI Data



Loaded Anti-CD73 Antibody, hFc Tag on ProA-Biosensor can bind Human CD73, His Tag with an affinity constant of 0.31 nM as determined in BLI assay (Gator® Prime).

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).