

# Human CD73/NT5E Protein

Cat. No. CD7-HM173



## Description

<b>Source</b>	Recombinant Human CD73/NT5E Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Trp27-Lys547.
<b>Accession</b>	P21589-1
<b>Molecular Weight</b>	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.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

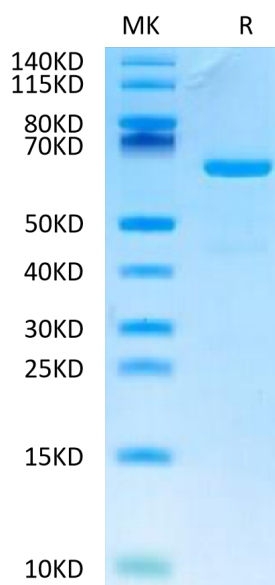
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 20mM Tris, 120mM NaCl (pH 7.5).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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

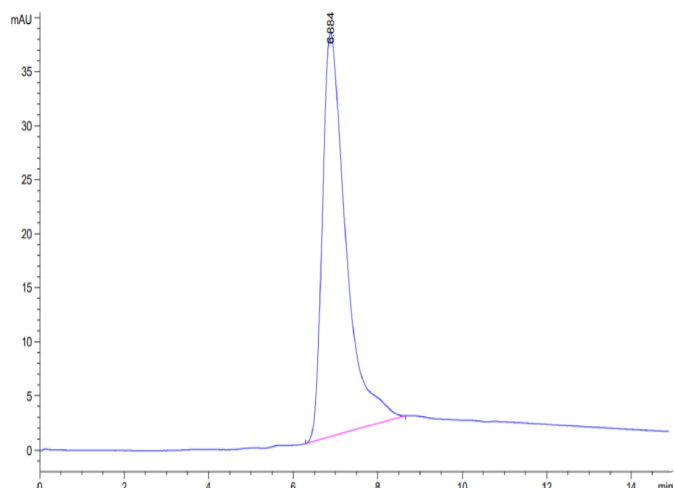
### Bis-Tris PAGE



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

### SEC-HPLC

## Assay Data

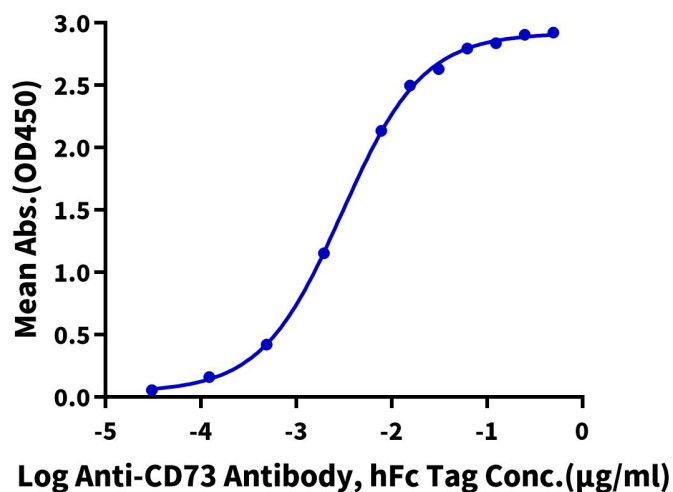


The purity of Human CD73 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

**Human CD73, His Tag ELISA**

0.2 $\mu$ g Human CD73, His Tag Per Well



Immobilized Human CD73, His Tag at 2 $\mu$ g/ml (100 $\mu$ l/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).

## 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/ $\mu$ g (QC Test).