

# Mouse CD73/NT5E Protein

Cat. No. CD7-MM173

## Description

<b>Source</b>	Recombinant Mouse CD73/NT5E Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Trp29-Lys549.
<b>Accession</b>	Q61503
<b>Molecular Weight</b>	The protein has a predicted MW of 58.6 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

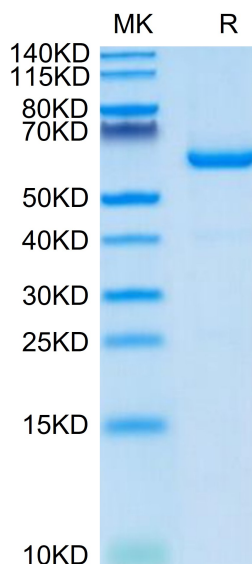
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 20mM Tris, 120mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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, an ecto-5'-Nucleotidase, is an ectoenzyme expressed by most cell types. The 5'-Nucleotidase activity of CD73 converts extracellular nucleoside5'monophosphates to nucleosides, with AMP as the preferred substrate. CD73 is one of several enzymes responsible for the production of extracellular adenosine, a signaling molecule that is involved in responses to inflammation and tissue injury.

## Assay Data

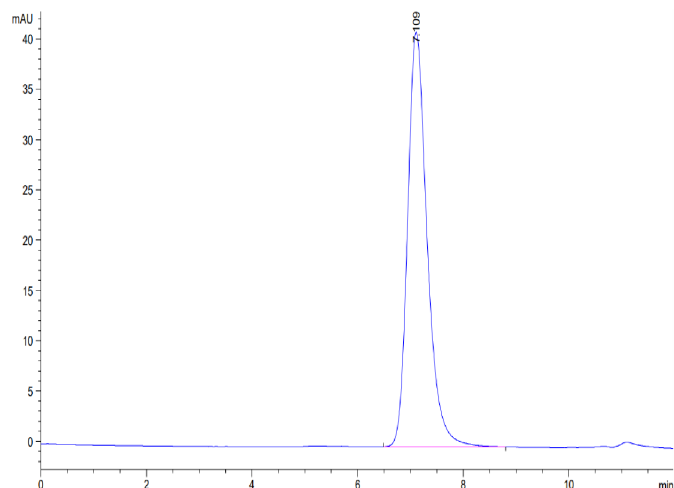
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

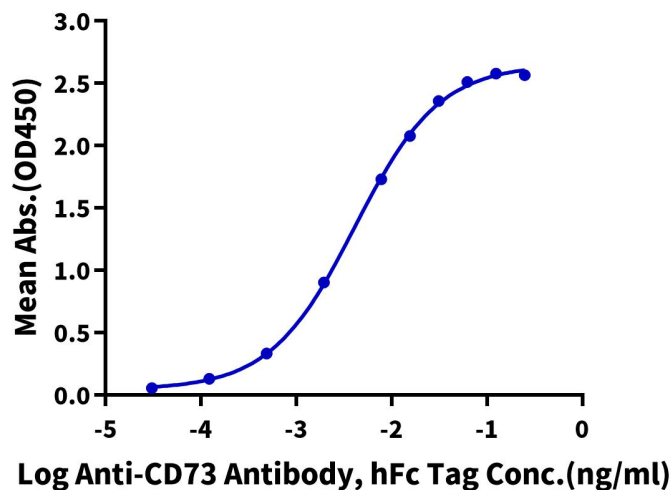


The purity of Mouse CD73 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Mouse CD73, His Tag ELISA**

0.2µg Mouse CD73, His Tag Per Well



Immobilized Mouse CD73, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD73 Antibody, hFc Tag with the EC50 of 4.1ng/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/µg (QC Test).