Mouse CD73/NT5E Protein

Cat. No. CD7-MM173

Description

Source	Recombinant Mouse CD73/NT5E Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Trp29-Lys549.
Accession	Q61503
Molecular Weight	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.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

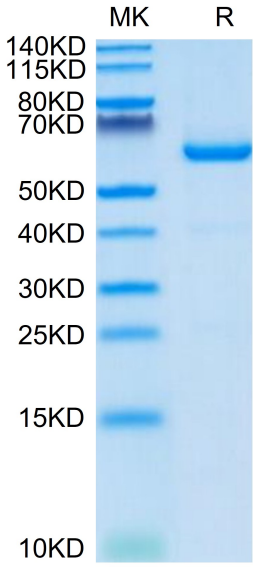
Formulation	Lyophilized from 0.22 μm filtered solution in 20 mM Tris, 120 mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage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

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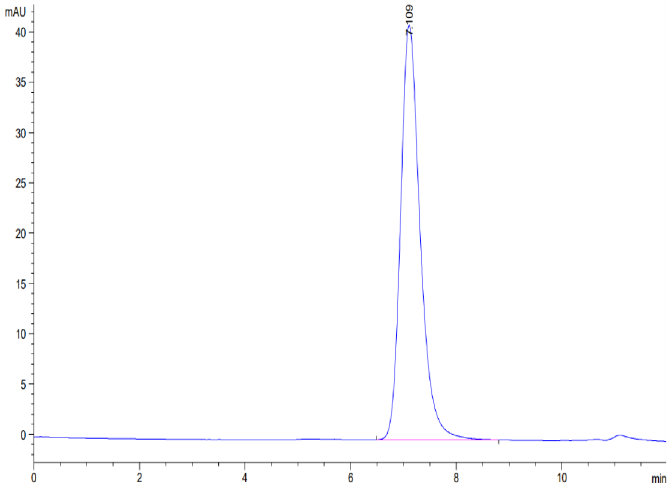
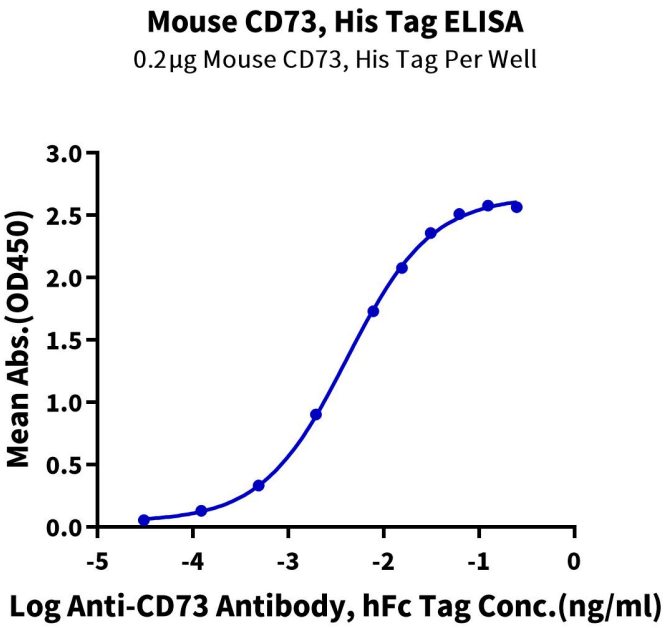
Assay Data



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

ELISA Data



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