Mouse CD39/ENTPD1 Protein, Ultra Low Endotoxin

Cat. No. CD3-MM139-UL

Description

Source	Recombinant Mouse CD39/ENTPD1 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Thr38-Ile478.
Accession	P55772
Molecular Weight	The protein has a predicted MW of 50.72 kDa. Due to glycosylation, the protein migrates to 68-78 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

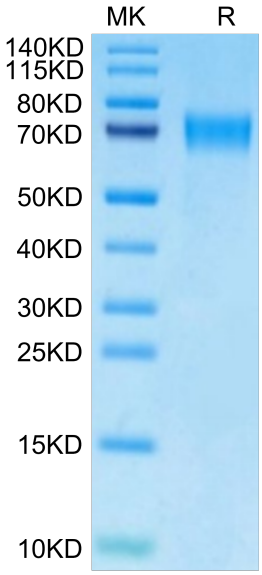
Formulation	Lyophilized from 0.22μm filtered solution in 20mM Tris-HCl, 150mM NaCl (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-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

CD39, also known as ENTPD1, belongs to the GDA1/CD39 NTPase family. It is expressed primarily on activated lymphoid cells and can also be detected in endothelial tissues.CD39 is involved in the processes of thromboregulation and vascular inflammation. The administration of soluble NTPDase-1 may have therapeutic applications for the treatment of some vascular and transplantation-associated diseases .

Assay Data

Bis-Tris PAGE



Mouse CD39 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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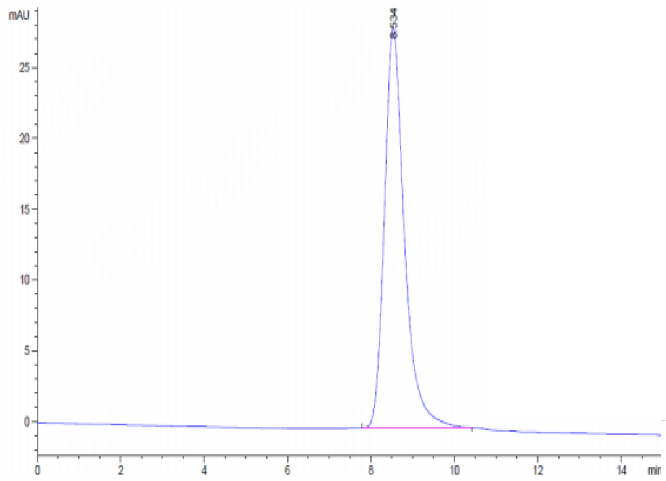
Assay Data



The purity of Mouse CD39 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Measured by its ability to hydrolyze the 5'-phosphate groups from the substrate adenosine-5'-triphosphate (ATP). The specific activity is >18,000 pmol/min/μg.