

Cynomolgus CD39 Protein, His Tag (active enzyme, MALS verified)

Catalog # CD9-C5PH3



Synonym

CD39,ENTPD1,NTPDase 1,Entpd1,Ecto-ATPDase 1,Ecto-ATPase 1

Source

Cynomolgus CD39 Protein, His Tag(CD9-C5PH3) is expressed from CHO cells. It contains AA Thr 60 - Val 500 (Accession # [XP\\_015311944.1](#)).

Molecular Characterization

CD39(Thr 60 - Val 500)  
XP\_015311944.1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 52.3 kDa. The protein migrates as 65-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM Tris, 150 mM NaCl, 20% Glycerol, pH8.0 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

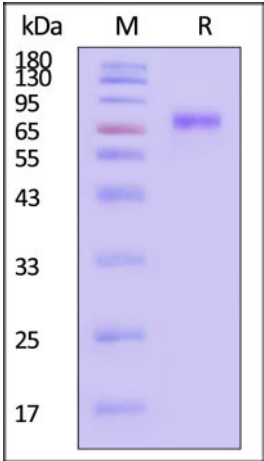
Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

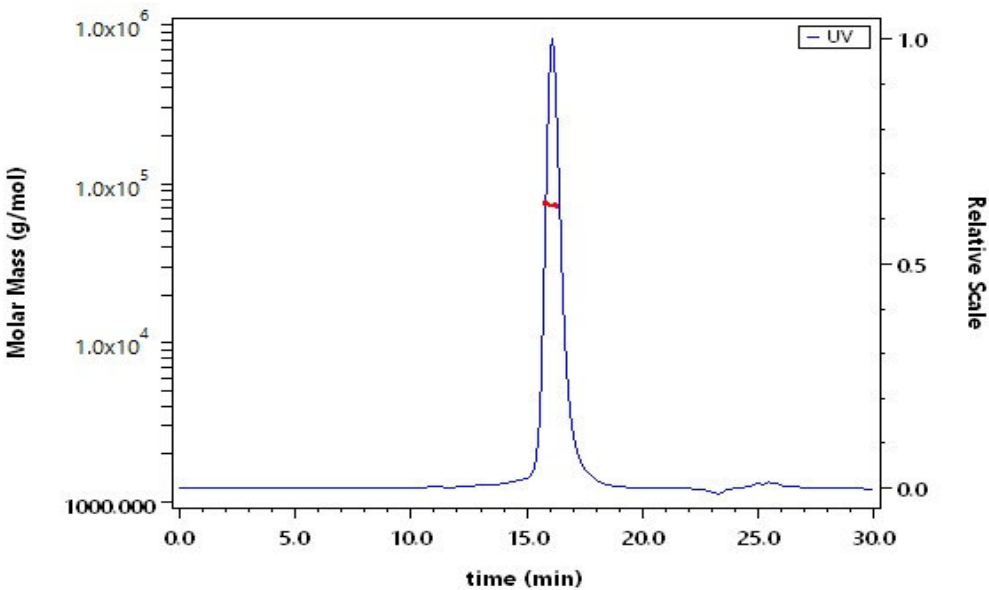
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Cynomolgus CD39 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus CD39 Protein, His Tag (Cat. No. CD9-C5PH3) is more than 85% and the molecular weight of this protein is around 65-85 kDa verified by SEC-MALS.

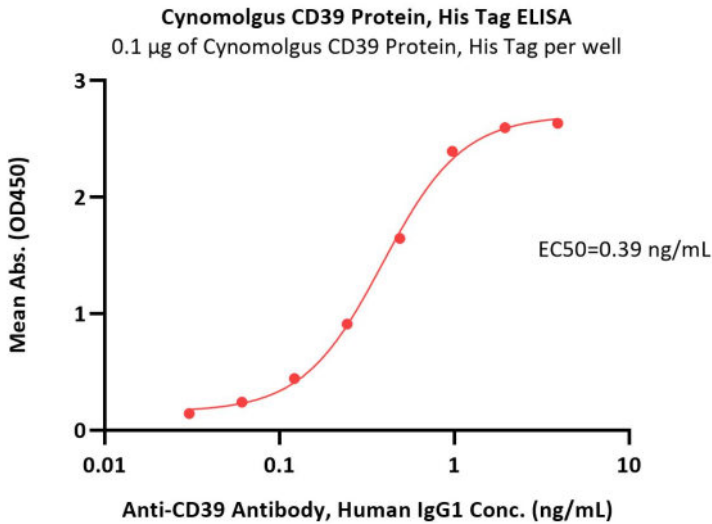
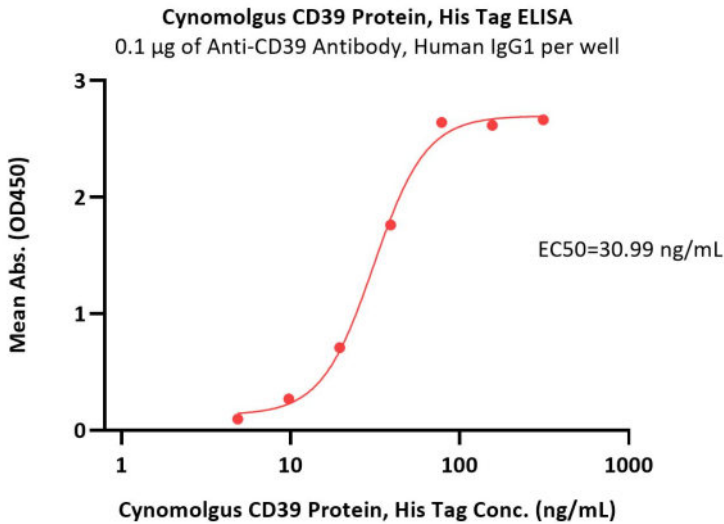
[Report](#)

Bioactivity-ELISA

Discounts, Gifts,  
and more!

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Immobilized Anti-CD39 Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Cynomolgus CD39 Protein, His Tag (Cat. No. CD9-C5PH3) with a linear range of 5-78 ng/mL (QC tested).

Immobilized Cynomolgus CD39 Protein, His Tag (Cat. No. CD9-C5PH3) at 1 µg/mL (100 µL/well) can bind Anti-CD39 Antibody, Human IgG1 with a linear range of 0.03-1 ng/mL (Routinely tested).

Bioactivity

Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-triphosphate (ATP). The specific activity is > 15,000 pmol/min/µg (QC tested).

Background

CD39 is also known as Ectonucleoside triphosphate diphosphohydrolase 1, ENTPD1, NTPDase 1, Ecto-ATPDase 1, in the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation by hydrolyzing platelet-activating ADP to AMP. Hydrolyzes ATP and ADP equally well. NTPDase-1 was originally described as CD39, a B lymphocyte cell surface marker, but it is also present on the surface of natural killer cells, T cells, and some endothelial cells. Regulatory T cells (Tregs) mediate immunosuppression through multiple, non-redundant, cell-contact dependent and independent mechanisms, a growing body of evidence suggests an important role for the CD39-CD73-adenosine pathway. CD39 ectonucleotidase is the rate-limiting enzyme of a cascade leading to the generation of suppressive adenosine that alters CD4 and CD8 T cell and natural killer cell antitumor activities.

