

Datasheet for ABIN7195466

CD39 Protein (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	CD39 (ENTPD1)
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD39 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse CD39/ENTPD1 Protein (His Tag)(Active)
Sequence:	Thr 38-Ile 478
Characteristics:	A DNA sequence encoding the mouse ENTPD1 (P55772) extracellular domain (Thr 38-Ile 478) was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to hydrolyze the 5'phosphategroups from the substrate adenosine 5'triphosphate(ATP). The specific activity is > 25,000 pmoles/min/µg.

Target Details

Target:	CD39 (ENTPD1)
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Target Details

Alternative Name: CD39/ENTPD1 ([ENTPD1 Products](#))

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. The vascular isoform and the placental isoform II are present in both placenta and umbilical vein, whereas placental isoform I is present in placenta only. CD39 can hydrolyze both nucleoside triphosphates and diphosphates. It is the dominant ecto nucleotidase of vascular and placental trophoblastic tissues and appears to modulate the functional expression of type 2 purinergic (P2) G protein coupled receptors (GPCRs). CD39 transgenic mice exhibit impaired platelet aggregation, prolonged bleeding times, and resistance to systemic thromboembolism. There is a correlation between ATP hydrolysis and triglycerides in patients with chronic heart disease, suggesting a relationship between ATP diphosphohydrolase and thrombogenesis. In the nervous system, CD39 could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission.

Synonym: Ectonucleoside triphosphate diphosphohydrolase 1, NTPDase 1, NTPDase 1, Ecto-ATP diphosphohydrolase 1, Ecto-ATPDase 1, Ecto-ATPase 1, Ecto-apyrase, Lymphoid cell activation antigen, CD39

Molecular Weight: 51 kDa

UniProt: [P55772](#)

Application Details

Restrictions: For Research Use only

Handling

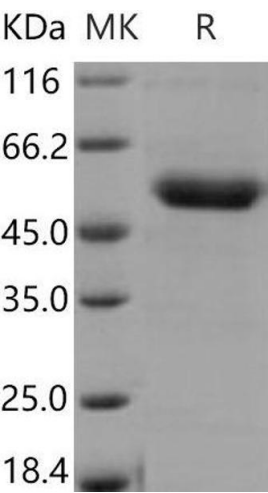
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.