

# Active Recombinant Human ENTPD1 Protein, His-Avi-tagged, Biotinylated

**Cat. No.** ENTPD1-04H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Biotinylated Human CD39, His,Avitag (MALS verified) is expressed from human 293 cells (HEK293). It contains AA Thr 38 - Val 478 (Accession # P49961-1).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Thr 38 - Val 478
<b>Description</b>	<p>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.</p>
<b>Form</b>	Delivered as bulk protein in a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl,

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	pH8.0 with trehalose as protectant.
<b>Bio-activity</b>	Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-triphosphate (ATP). The specific activity is > 3,000 pmol/min/μg.
<b>Molecular Mass</b>	The protein has a calculated MW of 54.0 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per μg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

<b>Gene Name</b>	ENTPD1 ectonucleoside triphosphate diphosphohydrolase 1 [ Homo sapiens ]
<b>Official Symbol</b>	ENTPD1
<b>Synonyms</b>	CD39;ENTPD1;NTPDase 1;Entpd1;Ecto-ATPDase 1;Ecto-ATPase 1
<b>Gene ID</b>	953

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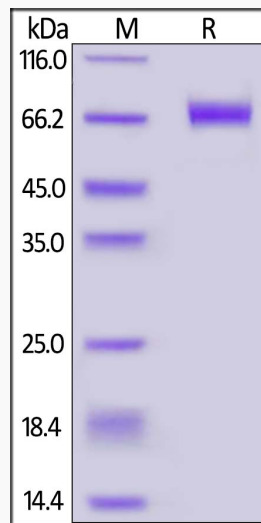
mRNA Refseq [NM\\_001098175](#)

Protein Refseq [NP\\_001091645](#)

MIM [601752](#)

UniProt ID [P49961](#)

**SDS-PAGE**



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