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

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

SPECIFICATION

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

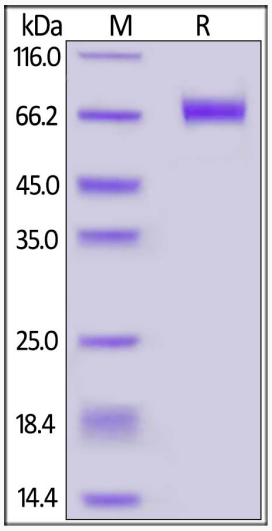
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	pH8.0 with trehalose as protectant.
Bio-activity	Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-triphosphate (ATP). The specific activity is > 3,000 pmol/min/μg.
Molecular Mass	The protein has a calculated MW of 54.0 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
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.
Reconstitution	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℃ before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

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

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mRNA Refseq	NM_001098175
Protein Refseq	NP_001091645
MIM	601752
UniProt ID	P49961
SDS-PAGE	

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