

Active Recombinant Human ENTPD1 (Q96A, N99A, E143A, R147E) Protein, His Tagged

Cat. No. ENTPD1-11257H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD39 (Q96A, N99A, E143A, R147E) Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 38-Val 478 (Accession # P49961-1 (Q96A, N99A, E143A, R147E)). This protein carries a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	38-478 aa
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.

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Form	Supplied as 0.2 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH8.0 with trehalose as protectant.
Bio-activity	Immobilized Human CD39/ENTPD1 (Q96A, N99A, E143A, R147E), His Tag at 1 µg/mL (100 µL/well) can bind X-IgG1 with a linear range of 0.5-3 ng/mL.
Molecular Mass	The protein has a calculated MW of 52.1 kDa. The protein migrates as 60-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.
GENE INFORMATION	
Gene Name	ENTPD1 ectonucleoside triphosphate diphosphohydrolase 1 [Homo sapiens (human)]
Official Symbol	ENTPD1
Synonyms	ENTPD1; ectonucleoside triphosphate diphosphohydrolase 1; CD39; ATPDase; NTPDase 1; CD39 antigen; ecto-apyrase; ecto-ATPase 1; ecto-ATPDase 1; ecto-ATP diphosphohydrolase 1; lymphoid cell activation antigen; NTPDase-1; FLJ40921;

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FLJ40959; DKFZp686D194; DKFZp686I093;

Gene ID

953

mRNA Refseq

NM_001098175

Protein Refseq

NP_001091645

MIM

601752

UniProt ID

P49961

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