Active Recombinant Human ENTPD1 (R138A, M139A, E142K) Protein, His Tagged

Cat. No. ENTPD1-11244H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD39 (R138A, M139A, E142K) Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 38-Val 478 (Accession # P49961-1 (R138A, M139A, E142K)). 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	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, PH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human CD39/ENTPD1 (R138A, M139A, E142K), His Tag at 1 μg/mL (100 μL/well) can bind Anti-CD39 Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL.
Molecular Mass	The protein has a calculated MW of 52.2 kDa. The protein migrates as 60-68 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.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ENTPD1 ectonucleoside triphosphate diphosphohydrolase 1 [Homo sapiens (human)]
Official Symbol	ENTPD1
Synonyms	ENTPD1; ectonucleoside triphosphate diphosphohydrolase 1; CD39; ATPDase;

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	NTPDase 1; CD39 antigen; ecto-apyrase; ecto-ATPase 1; ecto-ATPDase 1; ecto-ATP diphosphohydrolase 1; lymphoid cell activation antigen; NTPDase-1; FLJ40921; FLJ40959; DKFZp686D194; DKFZp686I093;
Gene ID	953
mRNA Refseq	NM_001098175
Protein Refseq	NP_001091645
MIM	601752
UniProt ID	P49961

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