

Active Recombinant Human ENTPD1, His-tagged

Cat. No. ENTPD1-187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ENTPD1 (Thr38-Val478) fused with 6-his tag at C-terminal was expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	38-478 a.a.
Description	Ectonucleoside triphosphate diphosphohydrolase1(NTPDase1) is an integral membrane protein with an extracellular active site. Recombinant human NTPDase1 was expressed as a protein lacking its N-and C-terminal transmembrane domains, resulting in the secretion of the soluble recombinant human NTPDase 1 ectodomain. NTPDase1 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. NTPDase1 hydrolyzes the β and γ phosphate residues of nucleotides, preferring ATP as the substrate. Through its hydrolysis of extracellular nucleotides, NTPDase1 plays a role in the regulation of purinergic signaling. NTPDase1 is involved in the processes of thromboregulation and vascular inflammation. The administration of soluble NTPDase1 may have therapeutic applications for the treatment of some vascular and transplantation- associated diseases.
Molecular Mass	The recombinant human ENTPD1 predicts a molecular mass of 51 kDa. It migrates as 65-90 kDa band in SDS-PAGE under reducing conditions.

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N-terminal Sequence	Thr38
Formulation	Supplied as a 0.2 µm filtered solution in Tris, NaCl, CaCl ₂ and Glycerol.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	Measured by its ability to hydrolyze the 5"-phosphate groups from the substrate adenosine5' triphosphate(ATP). The orthophosphate product is measured by a Malachite Green Phosphate Detection Kit. The specific activity is >5,000 pmol/min/µg, as measured under the described conditions.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.
Stability &Storage	Use a manual defrost freezer and avoid repeated freezethaw cycles. 6 months from date of receipt, 20 to 70°C as supplied. 3 months, 20 to 70°C under sterile conditions after opening.
OfficialSymbol	ENTPD1

GENE INFORMATION

Gene Name	ENTPD1 ectonucleoside triphosphate diphosphohydrolase 1 [Homo sapiens]
Synonyms	ENTPD1; ectonucleoside triphosphate diphosphohydrolase 1; CD39; ATPDase; NTPDase-1; NTPDase 1; CD39 antigen; ecto-apyrase; ecto-ATPase 1; ecto-ATPDase 1; ecto-ATP diphosphohydrolase 1; lymphoid cell activation antigen; EC 3.6.1.5; EC 3.6.1; DKFZp686D194; DKFZp686I093; ENTP1_HUMAN; Lymphoid Cell Activation Antigen; NTPDase1

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Gene ID	953
mRNA Refseq	NM_001776
Protein Refseq	NP_001767
MIM	601752
UniProt ID	P49961
Chromosome Location	10q24
Pathway	Epstein-Barr virus infection; Purine metabolism; Pyrimidine metabolism
Function	ATP binding; hydrolase activity

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