CD39 Protein, Human (Baculovirus, His)

Cat. No.:	HY-P72731
Synonyms:	Ectonucleoside triphosphate diphosphohydrolase 1; NTPDase 1; CD39; ENTPD1
Species:	Human
Source:	Sf9 insect cells
Accession:	P49961 (T38-V478)
Gene ID:	953
Molecular Weight:	Approximately 60 kDa

PROPERTIES

AA Sequence	T Q N K A L P E N V K Y G I V L D A G S S H T S L Y I Y K W P A E K E N D T G V V H Q V E E C R V K G P G I S K F V Q K V N E I G I Y L T D C M E R A R E V I P R S Q H Q E T P V Y L G A T A G M R L L R M E S E E L A D R V L D V V E R S L S N Y P F D F Q G A R I I T G Q E E G A Y G W I T I N Y L L G K F S Q K T R W F S I V P Y E T N N Q E T F G A L D L G G A S T Q V T F V P Q N Q T I E S P D N A L Q F R L Y G K D Y N V Y T H S F L C Y G K D Q A L W Q K L A K D I Q V A S N E I L R D P C F H P G Y K K V V N V S D L Y K T P C T K R F E M T L P F Q Q F E I Q G I G N Y Q Q C H Q S I L E L F N T S Y C P Y S Q C A F N G I F L P P L Q G D F G A F S A F Y F V M K F L N L T S E K V S Q E K V T E M M K K F C A Q P W E E I K T S Y A G V K E K Y L S E Y C F S G T Y I L S L L L Q G Y H F T A D S W E H I H F I G K I Q G S D A G W T L G Y M L N L T N M I P A E Q P L S T P L S H S T Y V
Biological Activity	Measured by its ability to hydrolyze the 5'-phosphate groups from the substrate adenosine-5'-triphosphate (ATP). The orthophosphate product is measured by a Malachite Green Phosphate Detection Kit. The specific activity is 33417.89 pmol/min/μg, as measured under the described conditions.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 500 mM NaCl, 10% Glycerol, pH 8.1.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	In the nervous system, the CD39 protein serves as a key regulator of purinergic neurotransmission by hydrolyzing ATP and other nucleotides. Its enzymatic activity extends to the prevention of platelet aggregation, as it efficiently hydrolyzes platelet-activating ADP to AMP. Notably, CD39 exhibits equal proficiency in the hydrolysis of both ATP and ADP, emphasizing its versatile role in modulating purinergic signaling pathways and contributing to the intricate regulation of neurotransmission and platelet function.

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