

CD39 Protein, Mouse (HEK293, His)

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| Cat. No.: | HY-P70727 |
| Synonyms: | Ectonucleoside triphosphate diphosphohydrolase 1; NTPDase 1; NTPDase 1; Ecto-ATP diphosphohydrolase 1; Ecto-ATPDase 1; Ecto-ATPase 1; Ecto-apyrase; Lymphoid cell activation antigen; CD39 |
| Species: | Mouse |
| Source: | HEK293 |
| Accession: | P55772 (T38-I478) |
| Gene ID: | 12495 |
| Molecular Weight: | 60-90 kDa |

PROPERTIES

AA Sequence

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|---------------------|---------------------|---------------------|---------------------|
| T Q N K P L P E N V | K Y G I V L D A G S | S H T N L Y I Y K W | P A E K E N D T G V |
| V Q Q L E E C Q V K | G P G I S K Y A Q K | T D E I G A Y L A E | C M E L S T E L I P |
| T S K H H Q T P V Y | L G A T A G M R L L | R M E S E Q S A D E | V L A A V S T S L K |
| S Y P F D F Q G A K | I I T G Q E E G A Y | G W I T I N Y L L G | R F T Q E Q S W L S |
| L I S D S Q K Q E T | F G A L D L G G A S | T Q I T F V P Q N S | T I E S P E N S L Q |
| F R L Y G E D Y T 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 S S G G V L |
| K D P C F N P G Y E | K V V N V S E L Y G | T P C T K R F E K K | L P F D Q F R I Q G |
| T G D Y E Q C H Q S | I L E L F N N S H C | P Y S Q C A F N G V | F L P P L H G S F G |
| A F S A F Y F V M D | F F K K V A K N S V | I S Q E K M T E I T | K N F C S K S W E E |
| T K T S Y P S V K E | K Y L S E Y C F S G | A Y I L S L L Q G Y | N F T D S S W E Q I |
| H F M G K I K D S N | A G W T L G Y M L N | L T N M I P A E Q P | L S P P L P H S T Y |
| I | | | |

Appearance

Solution.

Formulation

Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 500 mM NaCl, 10% Glycerol, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

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

CD39 protein, prominently expressed in the nervous system, plays a crucial role in the regulation of purinergic neurotransmission by hydrolyzing ATP and other nucleotides. Additionally, CD39 is implicated in preventing platelet aggregation through the hydrolysis of platelet-activating ADP to AMP. Notably, CD39 exhibits equal proficiency in hydrolyzing both ATP and ADP, underscoring its versatility in modulating purinergic signaling pathways and contributing to regulatory mechanisms that influence neurotransmission and platelet function. The dual enzymatic activity of CD39 highlights its significance in maintaining the delicate balance of purinergic signaling within the nervous system and the broader context of hemostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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