

CD39L4/ENTPD5 Protein, Mouse (sf9, His)

Cat. No.:	HY-P76317
Synonyms:	Ectonucleoside triphosphate diphosphohydrolase 5; NTPDase 5; CD39 antigen-like 4; CD39L4
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q9WUZ9 (T19-S427)
Gene ID:	12499
Molecular Weight:	Approximately 45 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 3 mM DTT, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CD39L4/ENTPD5 protein demonstrates its enzymatic activity by hydrolyzing nucleoside diphosphates, with a notable preference for GDP, IDP, and UDP over ADP and CDP. Particularly, within the endoplasmic reticulum lumen, CD39L4/ENTPD5 plays a vital role in clearing UDP, which acts as an end-product feedback inhibitor of the UDP-Glc:glycoprotein glucosyltransferases. By hydrolyzing UDP, CD39L4/ENTPD5 promotes the regeneration of UDP-glucose in the cytosol through an antiporter mechanism, ensuring a positive regulation of protein reglucosylation. This process is crucial for proper glycoprotein folding and quality control within the endoplasmic reticulum, emphasizing CD39L4/ENTPD5's significance in maintaining cellular functions related to glycoprotein processing.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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