

Synonym

CD39L1, NTPDase-2

Source

Human CD39L1/ENTPD2 Protein, His Tag(CD1-H53H3) is expressed from CHO cells. It contains AA Thr 29 - Asp 460 (Accession # [Q9Y5L3-1](#)).

Predicted N-terminus: Thr 29

Molecular Characterization

CD39L1/ENTPD2(Thr 29 - Asp 460) Q9Y5L3-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 49.0 kDa. The protein migrates as 36-37 kDa and 57-63 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

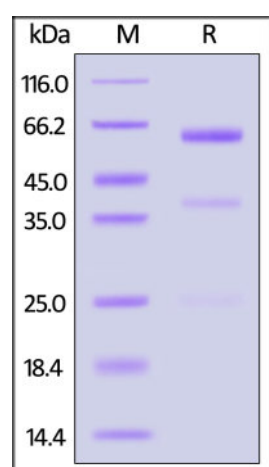
This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.

Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

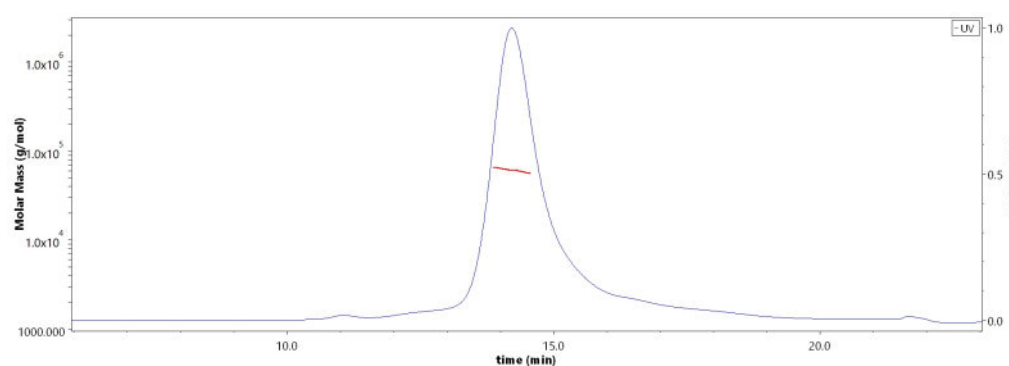
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE

Human CD39L1/ENTPD2 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity

Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-triphosphate (ATP). The specific activity is > 5,000 pmol/min/µg (QC tested).

SEC-MALS

The purity of Human CD39L1/ENTPD2 Protein, His Tag (Cat. No. CD1-H53H3) is more than 85% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)

Background

CD39L1, also known as ENTPD2 and NTPDase2, is an ectonucleotidase belonging to the CD39 family. It is found on the surface of vascular adventitial cells and accessory vascular cells. CD39L1 is a Ca²⁺ and Mg²⁺ dependent enzyme that hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission.

Hydrolyzes ADP only to a marginal extent. The order of activity with different substrates is ATP > GTP > CTP = ITP > UTP >> ADP = UDP. CD39L1 plays a role in regulating thrombosis and inflammation . It is considered to be a therapeutic target for thromboregulation and the treatment of vascular inflammation.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.