

### Synonym

CD39L1, NTPDase-2

### Source

Mouse CD39L1 / ENTPD2 Protein, His Tag(CD1-M53H3) is expressed from CHO cells. It contains AA Cys 26 - Ser 462 (Accession # [O55026-1](#) ).

Predicted N-terminus: Cys 26

### Molecular Characterization

CD39L1 (Cys 26 - Ser 462)  
O55026-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 50.2 kDa. The protein migrates as 44-46 kDa and 64-70 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.

>95% as determined by SEC-MALS.

### Formulation

Supplied as 0.2 µm filtered solution in 20mM Tris,150mM 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

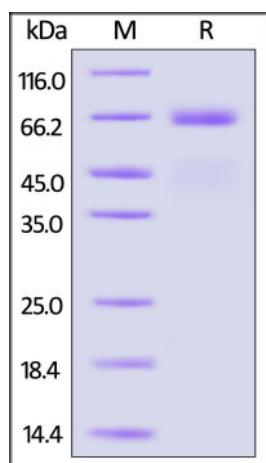
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE

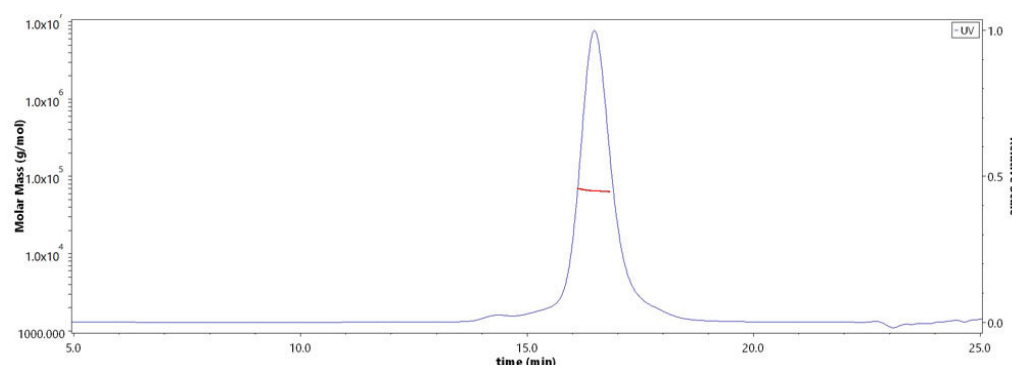


Mouse CD39L1 / ENTPD2 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity

Measured by its ability to hydrolyze the 5'-phosphate groups from the substrate adenosine-5'-triphosphate (ATP). The specific activity is >5000 pmol/min/µg (QC tested).

### SEC-MALS



The purity of Mouse CD39L1 / ENTPD2 Protein, His Tag (Cat. No. CD1-M53H3) is more than 95% 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  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  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  $\text{ATP} > \text{GTP} > \text{CTP} = \text{ITP} > \text{UTP} \gg \text{ADP} = \text{UDP}$ . 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](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.