

For Research Use Only

# Recombinant Mouse LAMP-1/CD107a protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3858

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/μg protein, LAL method

**Source:**  
HEK293-derived Mouse LAMP-1 protein Leu25-Asn370 (Accession# P11438) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
16783

**Accession:**  
P11438

**Predicted Molecular Mass:**  
64.1 kDa

**SDS-PAGE:**  
90-100 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Lysosome-associated membrane protein-1 (LAMP1), which is also known as CD107a, is a heavily glycosylated molecule that forms a glycocalyx on the inner side of the lysosomal membrane to prevent damage to hydrolytic enzymes and degradation. Therefore, LAMP1 is normally expressed in endosomes and lysosomal substructures of cells and can also be found in the plasma membrane.

## References

1. Saftig P, et al. Nat Rev Mol Cell Biol. 2009; 10:623-635
2. Peck R.F, et al. Mol Microbiol. 2008; 68:933-946
3. Fukuda M. J Biol Chem. 1991; 266:21327-21330
4. Parkinson-Lawrence E.J. Cell Immunol. 2005; 236:161-166

## Synonyms

CD107a, Lamp1, Lamp 1

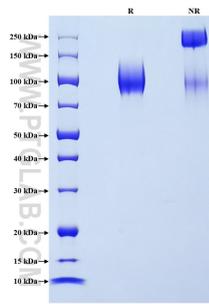
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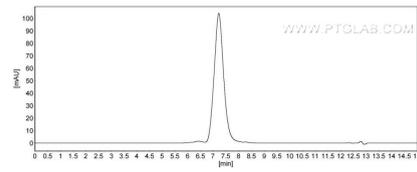
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## Selected Validation Data



Purity of Recombinant Mouse LAMP-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse LAMP-1 was greater than 90% as determined by SEC-HPLC.