

For Research Use Only

Recombinant Mouse OLR1/LOX1 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2473

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse OLR1 protein Arg60-Ile363 (Accession# Q9EQ09) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
108078

Accession:
Q9EQ09

Predicted Molecular Mass:
61.0 kDa

SDS-PAGE:
65-85 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m 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

OLR1 (also known as LOX1) is the receptor of oxidized low-density lipoprotein (ox-LDL) and is mainly expressed in endothelial cells, macrophages, smooth muscle cells, platelets, fibroblasts, and neurons. OLR1 is almost undetectable under physiological conditions, but it is upregulated following exposure to several proinflammatory and proatherogenic stimuli and can be detected in animal and human atherosclerotic lesions. OLR1 is the major contributor to ox-LDL uptake, internalization, and degradation in various cells. OLR1 plays a role in metabolism, cardiovascular disease and cancer.

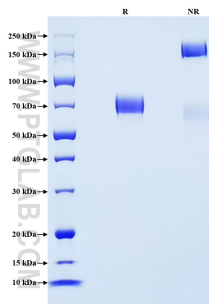
References

- 1.Pirillo A. et al. (2013) Mediators Inflamm. 2013:152786.
- 2.Jin P and Cong S. (2019) Clin Chim Acta. 491:24-29.
- 3.Zhang P. et al. (2023) Oncoimmunology. 12(1):2203073.
- 4.Wu L. et al. (2023) Int J Mol Sci. 24(16):12904.

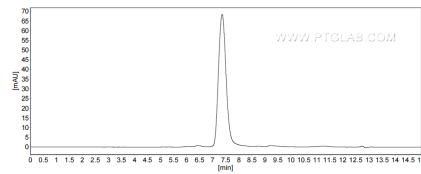
Synonyms

Lectin-like oxidized LDL receptor 1, Lectin-like oxLDL receptor 1, Lectin-type oxidized LDL receptor 1, Lox1, LOX-1

Selected Validation Data



Purity of Recombinant Mouse OLR1 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 OLR1 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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