

Recombinant Human OLR1/LOX-1 protein (His tag)

Catalog Number:PDMH100077



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

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|------------------------------------|---|
| Synonyms | Oxidized Low-Density Lipoprotein Receptor 1;Ox-LDL Receptor 1;C-Type Lectin Domain Family 8 Member A;Lectin-Like Oxidized LDL Receptor 1;LOX-1;Lectin-Like oxLDL Receptor 1;hLOX-1;Lectin-Type Oxidized LDL Receptor 1;OLR1;CLEC8A;LOX1;LOXIN;SCARE1; |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Ser61-Gln273 |
| Accession | P78380 |
| Calculated Molecular Weight | 23.3 kDa |
| Observed molecular weight | 32 kDa |
| Tag | C-His |

Properties

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|-----------------------|---|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | Please contact us for more information. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Background

Oxidized Low-Density Lipoprotein Receptor 1 (Ox-LDL Receptor 1) is a secreted; single-pass type II membrane protein which belongs to the C-type lectin superfamily. Ox-LDL Receptor 1 is expressed at high levels in endothelial cells and vascular-rich organs such as placenta; lung; liver; brain; aortic intima; bone marrow; spinal cord and substantia nigra. The expression of Ox-LDL Receptor 1 is induced by inflammatory cytokines such as TNF; IFNG and IL6 by pathological conditions; such as hyperlipidemia; hypertension and diabetes mellitus. Ox-LDL Receptor 1 mediates the recognition; internalization and degradation of oxidatively modified low density lipoprotein (OxLDL) by vascular endothelial cells. Ox-LDL Receptor 1 association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release; monocyte adhesion and apoptosis. Ox-LDL Receptor 1 also binds to oxLDL; which acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells; thereby participating in cell-mediated antigen cross-presentation. It also participates in inflammatory process; by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation.

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