

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

Catalog Number:PKSH033571



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

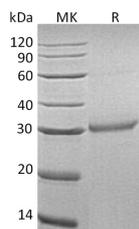
## Description

<b>Synonyms</b>	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,
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ser61-Gln273
<b>Accession</b>	P78380
<b>Calculated Molecular Weight</b>	25.4 kDa
<b>Observed molecular weight</b>	32 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Testing in progress

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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

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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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