

LOX-1-FC recombinant protein

Catalog No: YD3001

Reactivity: Human;

Purity: >90% as determined by SDS-PAGE

Gene Name: OLR1

Protein Name: 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-t

Sequence : Amino acid:58-273,with FC tag.

Human Gene Id: 4973

Human Swiss Prot

No:

Formulation: Phosphate-buffered solution

P78380

Source: Mammalian cells

Storage Stability: -15°C to -25°C/1 year(Avoid freeze / thaw cycles)

Function: Receptor that mediates the recognition, internalization and degradation of

oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro-oxidative conditions and apoptosis. Its 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. In addition to binding oxLDL, it 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. Also involved in inflammatory process, by acting as a leukocyte-

adhesion

Subcellular Location:

Cell membrane; Lipid-anchor. Cell membrane; Single-pass type II membrane protein. Membrane raft. Secreted. Note=A secreted form also exists. Localization

to membrane rafts requires palmitoylation.



Expression:

Expressed at high level in endothelial cells and vascular-rich organs such as placenta, lung, liver and brain, aortic intima, bone marrow, spinal cord and substantia nigra. Also expressed at the surface of dendritic cells. Widely expressed at intermediate and low level.

Products Images