Oxidized Low-Density Lipoprotein Receptor 1 (OLR1) Rabbit Recombinant Protein

PRODUCT OVERVIEW

Product Name	Oxidized low-density lipoprotein receptor 1 (OLR1), Recombinant Protein
Full Product Name	Recombinant Rabbit Oxidized low-density lipoprotein receptor 1 (OLR1), partial
Product Gene Name	OLR1 recombinant protein
Product Synonym Gene Name	OLR1
Sequence	MLGMQL LQVSDLLKQQ QANLTLQENI LEGQVLAQQQ AEAASQESQR ELKEMIETLA KRLDEKSKKQ MELNHQYLNL QEALKRMDNF SGPCPEDWLW HGKNCYLFSS GSFNWESSQE KCLSLDAQLL KINSTEDLGF IQQATSHSSF PFWMGLSRRK PDYSWLWEDG SPLMPHLFRF QGAVSQRYPS GTCAYIQKGN VFAENCILVA YSICQKKANL LRSE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	31,159 Da
Sequence Positions	55-274
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9XTA8
Species	Rabbit
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for OLR1 recombinant protein	This gene encodes a receptor protein which belongs to the C-type lectin superfamily. This gene is regulated through the cyclic AMP signaling pathway. The encoded protein binds, internalizes and degrades oxidized low-density lipoprotein. This protein may be involved in the regulation of Fas-induced apoptosis. This protein may play a role as a scavenger receptor. Mutations of this gene have been associated with atherosclerosis, risk of myocardial infarction, and may modify the risk of Alzheimer s disease. Alternative transcript variants have been described but their full-length sequence has not been determined.
Other Notes	Small volumes of OLR1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OLR1 purchase	MBS1331823 is a recombinant protein targeting OLR1. Also known as Recombinant Rabbit Oxidized low-density lipoprotein receptor 1 (OLR1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OLR1. It may not necessarily be applicable to this product.

NCBI GI #	130493907

NCBI GeneID	100009322
NCBI Accession #	NP_001076102.1
UniProt Primary Accession #	Q9XTA8
UniProt Related Accession #	Q9XTA8
GenBank Nucleotide #	NM_001082633.1
NCBI Official Full Name	oxidized low-density lipoprotein receptor 1
NCBI Official Symbol	OLR1
NCBI Official Synonym Symbols	LOX1; LOX-1
UniProt Protein Name	Oxidized low-density lipoprotein receptor 1
UniProt Synonym Protein Names	Lectin-like oxidized LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1
Protein Family	Oxidized low-density lipoprotein receptor
UniProt Gene Name	OLR1
UniProt Synonym Gene Names	LOX1; Ox-LDL receptor 1; LOX-1; Lectin-like oxLDL receptor 1
NCBI Protein Information	oxidized low-density lipoprotein receptor 1
UniProt Comments for OLR1	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 molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram-positive bacteria ().
Research Articles on OLR1	**1.** ox-LDL and LOX-1 increase due to subarachnoid hemorrhage and they may play a role in the pathogenesis of vasospasm.
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