



Human Soluble Lectin-like Oxidized LDL Receptor-1 (aa 58 - 273) (DAG275)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Soluble Lectin-like Oxidized LDL Receptor-1 (sLOX), Recombinant. Consists of a single polypeptide chain corresponding to extracellular domain (a.a. 58-273) of the whole lectin-like oxidized lipoprotein receptor-1 (LOX-1) molecule without tags.
Antigen Description	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.
Species	Human
Conjugate	Unconjugated
Applications	Calibrator or standard in immunoassays, immunogen for antibody production. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily
Format	Purified, Lyophilized
Concentration	Lot specific
Buffer	Lyophilized from 50mM Tris-HCl, pH 7.6, 150mM Sodium chloride
Preservative	None

BACKGROUND

Introduction

This gene encodes a low density lipoprotein receptor that 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 Alzheimers disease. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]

Keywords

OLR1; oxidized low density lipoprotein (lectin-like) receptor 1; LOX1; LOXIN; SLOX1; CLEC8A; SCARE1; oxidized low-density lipoprotein receptor 1; hLOX-1; ox LDL receptor 1; lectin-type oxidized LDL receptor 1; scavenger receptor class E, member 1; C-type
