

Recombinant Human Oxidized low-density lipoprotein receptor 1(OLR1),partial

Catalog No: #AP70608

Package Size: #AP70608-1 20ug #AP70608-2 100ug #AP70608-3 1mg

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Description

Product Name	Recombinant Human Oxidized low-density lipoprotein receptor 1(OLR1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:58-273aaSequence Info:Extracellular Domain
Other Names	C-type lectin domain family 8 member ALectin-like oxidized LDL receptor 1 ;LOX-1 ;Lectin-like oxLDL receptor 1 ;hLOX-1Lectin-type oxidized LDL receptor 1
Accession No.	P78380
Calculated MW	28.7 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MQLSQVSDLLTQEQANLTHQKKKLEGQISARQQAEASQSENELKEMIETLARKLNEKSKEQMELHHQNLN LQETLKRVANCSAPCPQDWIWHGENCYLFSSGSFNWEKSQEKCLSLDAKLLKINSTADLDFIQQAISYSSFPF WMGLSRRNPSPWLWEDGSPLMPHLFRVRGAVSQTYPSTGTCAYIQRGAVYAENCILAAFSICQKKANLRAQ
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

Crystal structure of human lectin-like, oxidized low-density lipoprotein receptor 1 ligand binding domain and its ligand recognition mode to oxLDL.Ohki I., Ishigaki T., Oyama T., Matsunaga S., Xie Q., Ohnishi-Kameyama M., Murata T., Tsuchiya D., Machida S., Morikawa K., Tate S.Structure 13:905-917(2005)Research Topic:Cardiovascular

Note: This product is for in vitro research use only and is not intended for use in humans or animals.