

Human LOX-1 Protein, His Tag (MALS verified)

Catalog # LO1-H5243



BIOSYSTEMS
Acro

Synonym

LOX-1

Source

Human LOX-1 Protein, His Tag (LO1-H5243) is expressed from human 293 cells (HEK293). It contains AA Ser 61 - Gln 273 (Accession # [P78380-1](#)).

Molecular Characterization

Poly-his	LOX-1(Ser 61 - Gln 273) P78380-1
----------	-------------------------------------

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 26.4 kDa. The protein migrates as 30-40 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Endotoxin

Less than 0.05 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

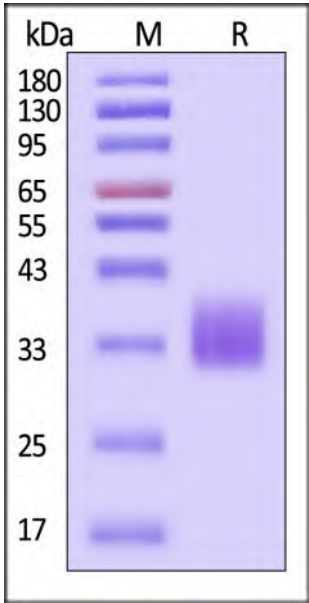
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

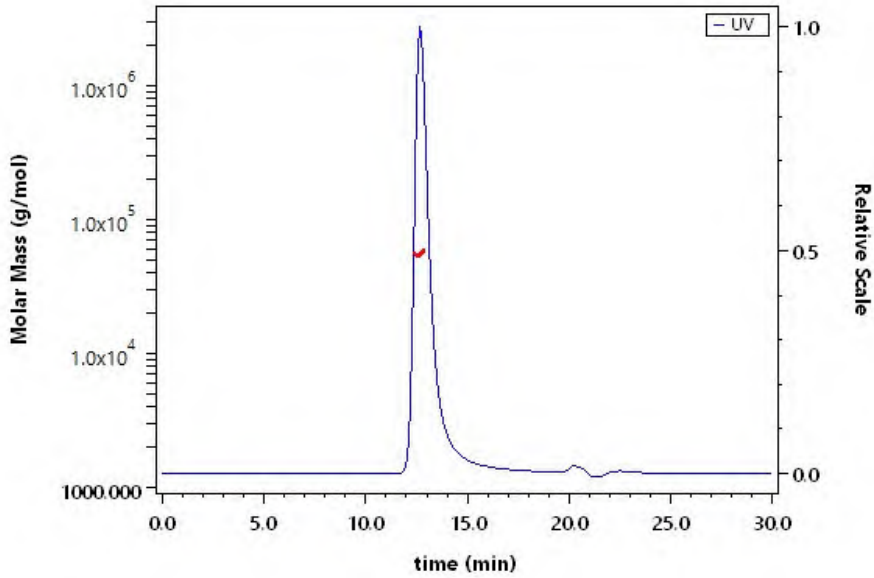
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



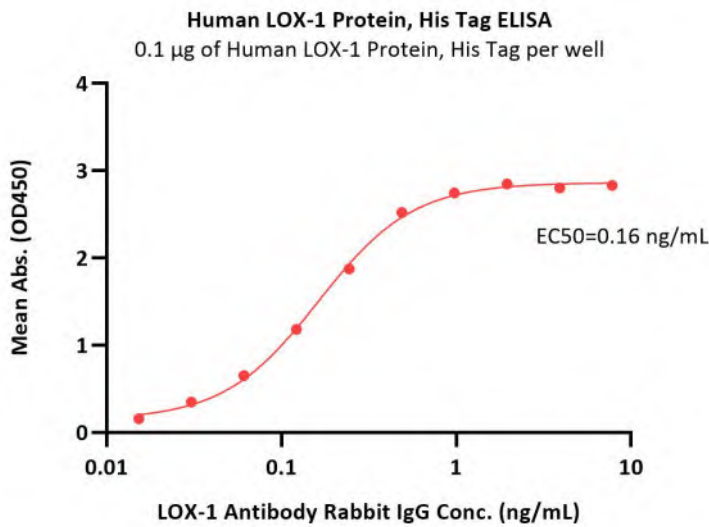
Human LOX-1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



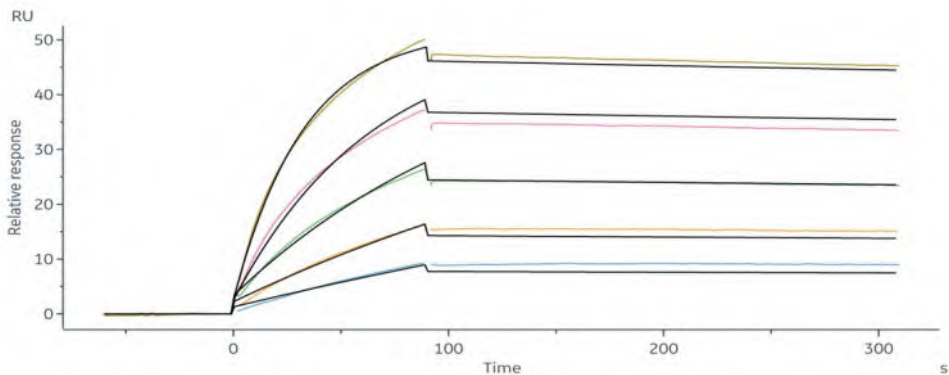
The purity of Human LOX-1 Protein, His Tag (Cat. No. LO1-H5243) is more than 90% and the molecular weight of this protein is around 52-72 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human LOX-1 Protein, His Tag (Cat. No. LO1-H5243) at 1 µg/mL (100 µL/well) can bind LOX-1 Antibody Rabbit IgG with a linear range of 0.02-0.5 ng/mL (QC tested).

Bioactivity-SPR



LOX-1 Antibody, Rabbit IgG captured on Protein G Chip can bind Human LOX-1 Protein, His Tag (Cat. No. LO1-H5243) with an affinity constant of 0.174 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

LOX-1 is a transmembrane glycoprotein that binds to and internalizes ox-LDL. LOX-1 gene deletion in mice and anti-LOX-1 therapy has been shown to decrease inflammation, oxidative stress and atherosclerosis. LOX-1 deletion also results in damage from ischemia, making LOX-1 a promising target of therapy for atherosclerosis and related disorders. In this article we focus on the different mechanisms for regulation, signaling and the various effects of LOX-1 in contributing to atherosclerosis.

Discounts, Gifts,
and more!



www.acrobiosystems.com