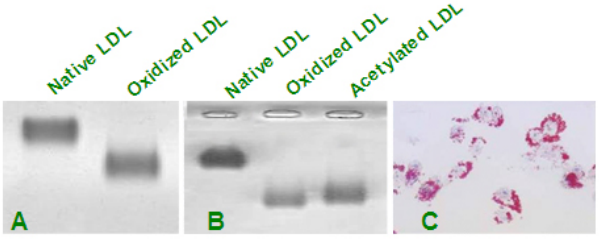
OXIDIZED LDL

Name:	Oxidized LDL
Cat. #:	10454
Size:	2.0 mg
Description:	Human Oxidized Low Density Lipoprotein
Purity:	98% (Co-migrates with reference on agarose gel electrophoresis)
Concentration:	Minimum 2.40 mg/ml protein
Background:	LDL is a large protein (MW 3,500 kDa) with a diameter of 25.8 nm. It is composed of approximately 20-25% protein and 75-80% lipid. The lipid portion can be further described as 9% free cholesterol, 42% cholesteryl ester, 20-24% phospholipid, and 5% triglyceride.
Source:	Human LDL (Cat. No. 10453), which was purified to homogeneity via ultracentrifugation (1.019-1.063g/cc), is oxidized using CuSO4 (oxidant) in PBS at 37°C for 18 hours. Oxidation is terminated by adding excess EDTA-Na2. Each lot is analyzed on agarose gel electrophoresis for migration versus LDL. This lot of OxLDL migrates 2.0 times further than the native LDL. This type Oxidized LDL is widely used to investigate lipid metabolism, only less induce cell apoptosis. For apoptosis inducement, please choose High Oxidized LDL (Cat. No. 10455).
Tested Applications:	Sample lots of Oxidized LDL are evaluated for receptor binding to peritoneal macrophages in conjunction with our DiI-Ox-LDL and [I-125] Ox-LD.
Storage & Stability:	This product is stable for 6 weeks after receipt when handled aseptically and stored at 2-8°C (**Don't Freeze**). Note: After prolonged storage, some precipitate may be observed. This is normal for the product. Spin in centrifugation at 1000×g for 3 minutes before using.
Packaging:	Oxidized LDL is membrane filtered and aseptically packaged under nitrogen in a solution containing phosphate-buffered saline at pH 7.4 and 0.2 mM EDTA-Na2. The product requires 1-2 weeks lead time. Please plan your experiments in advance and use the fresh material.
TBARS:	Determined calorimetrically by using Malondialdehyde as a standard. Starting LDL <0.50 nmoles of MDA/mg ; Ox-LDL >18.5 nmoles of MDA/mg Protein.



Native-LDL(n-LDL), Oxidized-LDL (ox-LDL) and Acetylated-LDL(Ac-LDL) were loaded on agarose gel and electrophoresed for 60 mins. The lipoproteins were stained with Sudan Black (A and B). Oil red O staining was used to determine the formation of foam cell. RAW264.7 were incubated with 80 µg/mL ox-LDL for 24 hrs.