Human Acetylated Low Density Lipoprotein（Human Ac-LDL）

Product Information

Product Name	Cat#	Size
Human Acetylated Low Density Lipoprotein（Human Ac-LDL）	20604ES05	2 mg
	20604ES10	5×2 mg

Product Description

Low Density Lipoprotein, or LDL, is converted from very Low Density Lipoprotein (VLDL). Its main function is to transport cholesterol to cells throughout the body. Cholesterol is transported to the liver for synthesis of cholic acid. It can be used to study receptor - mediated endocytosis. Plasma derived LDL can be used to study the oxidative role of LDL in function and metabolism, especially in diseases such as atherosclerosis.

Acetylated LDL is a class of modified LDL. LDL contains the unmodified apolipoprotein and can be used to study the transport and endocytosis of normal cholesterol. When the lysine residue of LDL apolipoprotein is acetylated, the LDL complex no longer binds to the LDL receptor. However, modified LDL is more likely to bind to "Scavenger" receptors in endothelial cells and microglial nerve cells. Therefore, Ac-LDL can be used to study the function of these cells.

Acetylated LDL from healthy human plasma, tested negative for Hepatitis C, HIV-I and HIV-II antibodies. This product is sterile packaging and can be directly diluted for use.

In addition to providing acetylated LDL, we also provide anthropogenic oxidized LDL (ox-LDL), as well as labeled LDL.

Product Properties

Purity	> 95% by SDS-PAGE.
Concentration	1.0-3.0 mg/mL by Lowry
Appearance	liliquoid
Buffer Components	0.01 μM EDTA in PBS, pH 7.4
Dilution method	Diluted with PBS phosphate buffer or cell culture solution as required.

Shipping and Storage

The products are shipped with ice pack and can be stored at 4℃ for 6 weeks.

Do not freeze!! Avoid direct sunlight.

Cautions

1. The product will see a small amount of precipitation after long-term preservation, which is a normal phenomenon. Centrifuge at low speed for 1-2 min to remove the precipitate and obtain the clarification solution.
2. The Ac-LDL working fluid is very unstable, so it is strongly recommended to configure the working fluid fresh according to the amount needed for a single time.
3. The binding of LDL to LDL receptor requires the participation of Ca^{2+} and Mn^{2+}, and the presence of excessive EDTA will inhibit the binding.
4. For your safety and health, please wear lab coats and disposable gloves for operation.
5. For research use only.