HB220419

Human Low Density Lipoprotein (Human LDL)

Product Information

Product Name	Cat#	Size
Human Low Density Lipoprotein (Human LDL)	20613ES05	2 mg

Product Description

Low-density lipoprotein (Low Density Lipoprotein, referred to as LDL) is converted from very low-density lipoprotein (VLDL), and its main function is to transport cholesterol to cells throughout the body and transport it to the liver to synthesize bile acid, which can be used to study receptors. Plasma-derived LDL can be used to study the oxidative role of LDL in function and metabolism, especially in diseases such as atherosclerosis. LDL is a large protein with a molecular weight of 3500 kDa and a diameter of 25.8 nm, consisting of 20-25% protein and 75-80% lipid. The lipid part is composed of 9% free cholesterol, 42% cholesterol esters, 20-24% phospholipids and 5% triglycerides.

Human Low Density Lipoprotein (Human LDL), obtained from healthy human plasma, purified by ultracentrifugation, and its homogeneity and purity were detected by agarose electrophoresis. This product is sterile packaged and can be directly diluted for use.

In addition to LDL, we also offer human oxidized LDL (Ox-LDL), human acetylated LDL, and fluorescently labeled LDL.

Product Properties

Purity by Agarose Gel	> 98%
Concentration	1.0 – 4.0 mg/mL
Appearance	milky liquid
Buffer	0.01 μM EDTA in PBS，pH 7.4
Dilution method	It can be diluted with PBS phosphate buffered saline or cell culture medium according to the experimental needs.

Shipping and Storage

The product is shipped with ice pack and can be stored at 4°C, protected from light for 6 weeks upon receipt.

Do not freeze! Be sure to use it aseptically!

Cautions

1.The diluted product is extremely unstable; it is recommended to use it immediately.

2.Precipitation may occur in long-term storage, which is a normal phenomenon. Centrifuge at low speed for 2 mins to remove the precipitate and use it.

3.The binding of LDL to the LDL receptor requires the participation of Ca^{2+} and Mn^{2+}, and the presence of excess EDTA will inhibit its binding.

4.For your safety and health, please wear lab coats and disposable gloves for operation.

5.For research use only!