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## Human LDL

Catalog Number: bs-2200P

Concentration: >1.0 mg/ml

AA Seq: Purified native protein

Activity: Yes

Endotoxin: Not analyzed

Storage: Stored at 2-8°C. Avoid repeated freeze/thaw cycles. This product is stable for 8 weeks after open when handled aseptically.

**Background:** LDL (low-density lipoprotein) is a type of lipoprotein that transports cholesterol and triglycerides from the liver to peripheral tissues. LDL enables fats and cholesterol to move within the water based solution of the blood stream. LDL also regulates cholesterol synthesis at these sites. The low density lipoprotein (LDL) receptor system coordinates the metabolism of cholesterol, an essential component of the plasma membrane of all mammalian cells. Study of this system has led to an enhanced understanding of the cellular basis of cholesterol homeostasis. It has also brought into focus an important mechanism of metabolic regulation--the process of receptor-mediated endocytosis (1). Data suggest that the juxtamembranous region of the cytoplasmic domain participates in protein:protein interactions that allow the low density lipoprotein receptor to cluster in coated pits (2). It has been shown that the family of LDL receptors may serve as viral receptors. Endocytosis of the Flaviviridae viruses, hepatitis C virus, GB virus C/hepatitis G virus, and bovine viral diarrheal virus (BVDV) was shown to be mediated by LDL receptors on cultured cells.

### VALIDATION IMAGES

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The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.