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AR05038PU-N Human Low Density Lipoprotein / LDL - Purified

Alternate names: Low-density lipoprotein

Quantity: 0.2 mg

Concentration: 0.2 mg/ml

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.

Species: Human

Source: Human

Format: **State:** Liquid purified protein
Purity: Purified LDL is labelled with the fluorescent probe DiI (1,1'-dioctadecyl-3,3,3',3'-tetramethyl-indocarbocyanine perchlorate). The resultant product is then dialysed against 0.15 M NaCl, 0.05 M TRIS (pH 7.4) and 0.3 mM EDTA, sterilised by filtration and aseptically packaged.

Applications: In vitro Assay.
Flow Cytometry: has been used for monitoring Ac-LDL uptake by monocytes/ macrophages in conjunction with excess unlabelled Ac-LDL (5685-3404). See reference 4.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: Sample lots of this product are individually evaluated for the labelling of human skin fibroblasts or P-388D cells grown in lipoprotein deficient medium for 48 hours.

Storage: Store the protein undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: 3 month from despatch.

Caution: (A full Health and Safety assessment is available upon request) The donor material tested negative for HIV 1 and 2 antibodies, HBsAg, HTLV I antibodies, HCV and HBcAg.

General Readings:

1. Barak LS, Webb WW. Fluorescent low density lipoprotein for observation of dynamics of individual receptor complexes on cultured human fibroblasts. J Cell Biol. 1981 Sep;90(3):595-604. PubMed PMID: 6270157.
2. Pitas RE, Innerarity TL, Mahley RW. Foam cells in explants of atherosclerotic rabbit aortas have receptors for beta-very low density lipoproteins and modified low density lipoproteins. Arteriosclerosis. 1983 Jan-Feb;3(1):2-12. PubMed PMID: 6297442.
3. Barak LS, Webb WW. Diffusion of low density lipoprotein-receptor complex on human fibroblasts. J Cell Biol. 1982 Dec;95(3):846-52. PubMed PMID: 6296157.
4. Rahman EU, Ruan XZ, Chana RS, Brunskill NJ, Gaya J, Powis SH, et al. Mesangial matrix-activated monocytes express functional scavenger receptors and accumulate intracellular lipid. Nephrol Dial Transplant. 2008 Jun;23(6):1876-85. doi: 10.1093/ndt/gfm901. Epub 2008 Feb 14. PubMed PMID: 18281317.