

## Datasheet: 2550-0004

<b>Description:</b>	NATIVE HUMAN LOW DENSITY LIPOPROTEIN (ACETYLATED):DIL
<b>Name:</b>	LOW DENSITY LIPOPROTEIN (ACETYLATED)
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunofluorescence (1)	▪			
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

**(1)3% formaldehyde in PBS is required for fixation. Methanol or Acetone can not be used as 2550-0004 is soluble in organic solvents.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified acetylated LDL from human serum, Dil labelled - liquid
<b>Preparation</b>	Purified LDL is acetylated and then labelled with the fluorescent probe Dil (1,1'-dioctadecyl-3,3,3',3'-tetramethylindo-carbocyanine perchlorate). The resultant product is exhaustively dialyzed against 0.15 M NaCl, 0.05 M Tris, pH 7.4, 0.3 mM EDTA, sterilized by filtration and then aseptically packaged.
<b>Preservative Stabilisers</b>	None present.
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.2 mg/ml
<b>Product Information</b>	Many lots have been evaluated for the specific labelling of bovine aortic endothelium, HUVECS, murine macrophages and the current lot was evaluated on P-388D cells.

## References

1. Fogelman, A.M. *et al.* (1980) Malondialdehyde alteration of low density lipoproteins leads to cholesteryl ester accumulation in human monocyte-macrophages. [Proc Natl Acad Sci U S A. 77 \(4\): 2214-8.](#)
2. Pitas, R.E. *et al.* (1981) Acetoacetylated lipoproteins used to distinguish fibroblasts from macrophages in vitro by fluorescence microscopy. [Arteriosclerosis. 1 \(3\): 177-85.](#)
3. Voyta, J.C. *et al.* (1984) Identification and isolation of endothelial cells based on their increased uptake of acetylated-low density lipoprotein. [J Cell Biol. 99 \(6\): 2034-40.](#)
4. Allen, S. *et al.* (1998) Native low density lipoprotein-induced calcium transients trigger VCAM-1 and E-selectin expression in cultured human vascular endothelial cells. [J Clin Invest. 101 \(5\): 1064-75.](#)
5. Gough, P.J. *et al.* (2001) The use of human CD68 transcriptional regulatory sequences to direct high-level expression of class A scavenger receptor in macrophages *in vitro* and *in vivo*. [Immunology. 103 \(3\): 351-61.](#)
6. Stein, O. & Stein, Y. (1980) Bovine aortic endothelial cells display macrophage-like properties towards acetylated 125I-labelled low density lipoprotein. [Biochim Biophys Acta. 620 \(3\): 631-5.](#)
7. Chiang, C.H. *et al.* (2011) Investigation of hepatoprotective activity of induced pluripotent stem cells in the mouse model of liver injury. [J Biomed Biotechnol. 2011: 219060.](#)
8. Garside, S.A. *et al.* (2010) Thrombospondin-1 inhibits angiogenesis and promotes follicular atresia in a novel *in vitro* angiogenesis assay. [Endocrinology. 151: 1280-9.](#)
9. Rae, M. *et al.* (2009) Cortisol inactivation by 11beta-hydroxysteroid dehydrogenase-2 may enhance endometrial angiogenesis via reduced thrombospondin-1 in heavy menstruation. [J Clin Endocrinol Metab. 94: 1443-50.](#)
10. Huang, C.S. *et al.* (2018) Generation of high quality of hepatocyte-like cells from induced pluripotent stem cells with Parp1 but lacking c-Myc. [J Chin Med Assoc. Jul 12 \[Epub ahead of print\].](#)

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**Storage** This product is stable when handled aseptically and stored at +4°C. DO NOT FREEZE. This product should be stored undiluted.

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**Guarantee** Guaranteed until date of expiry. Please see product label.

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**Health And Safety Information** Material Safety Datasheet documentation #10078 available at: 10078: <https://www.bio-rad-antibodies.com/uploads/MSDS/10078.pdf>

Donor material tested and found negative for HIV1, HIV2, HIV1 antigen, HBsAg, the antibody to HTLV1, HCV, HBcAg, ALT and syphilis.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious.

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