

Disterolphospholipids: Nonexchangeable lipids and their application to liposomal drug delivery

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Abstract

Extreme makeover of cholesterol: Cholesterol exchange is a major reason for the instability of liposomes in blood. The formation of a covalent hybrid between cholesterol and glycerophosphocholine preserves the bilayer-stabilizing effect of free cholesterol but prevents its transfer from the bilayer. Thus, disterolphospholipids (e.g. 1) are valuable new components for liposome formulation. © 2009 Wiley-VCH Verlag GmbH & Co. KGaA.

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