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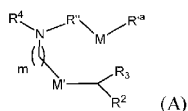
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(54) Title: CARBONATE CONTAINING LIPID COMPOUNDS AND COMPOSITIONS FOR INTRACELLULAR DELIVERY OF THERAPEUTIC AGENTS



(57) Abstract: The application relates to lipids of the general Formula (A) wherein at least one of the two side chains contains a carbonate functional group (M and/or M' is -OC(=O)-) and to empty or loaded lipid nanoparticles (LNPs) including such lipids as well as additional lipids such as phospholipids, structural lipids, and PEG lipids. Lipid nanoparticles further including therapeutic and/or prophylactics such as RNA are useful in the delivery of therapeutic and/or prophylactics to mammalian cells or organs to, for example, regulate polypeptide, protein, or gene expression.



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