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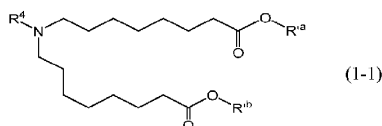
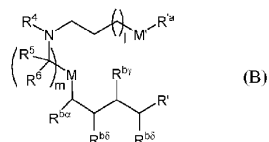
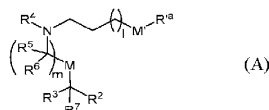
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(54) Title: BRANCHED TAIL LIPID COMPOUNDS AND COMPOSITIONS FOR INTRACELLULAR DELIVERY OF THERAPEUTIC AGENTS



(57) Abstract: The application relates to lipids of Formula (A), Formula (B) and Formula (1-1), and to lipid nanoparticles (empty or loaded LNPs) including such a lipid 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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WO 2021/055833 A1

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