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(54) **LIPIDS AND COMPOSITIONS FOR INTRACELLULAR DELIVERY OF BIOLOGICALLY ACTIVE COMPOUNDS**

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See application file for complete search history.

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(57) **ABSTRACT**

The present invention provides novel amino-lipids, compositions comprising such amino-lipids and methods of producing them. In addition, lipid nanoparticles comprising the novel amino-lipids and a biologically active compound are provided, as well as methods of production and their use for intracellular drug delivery.

22 Claims, 23 Drawing Sheets