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(54) Title: BIODEGRADABLE CARBAMATE LIPIDS WITH INCREASED STABILITY

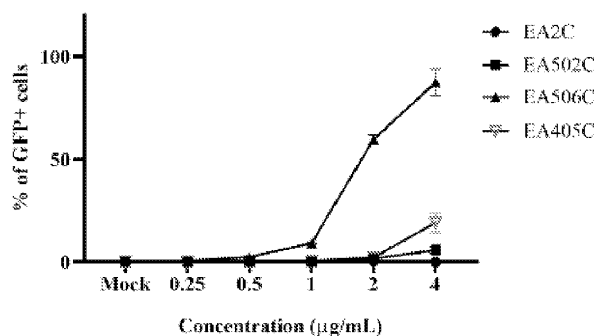


Figure 12A

(57) Abstract: The present invention provides lipids and lipid nanoparticle formulations comprising these lipids, alone or in combination with other lipids. These lipid nanoparticles may be formulated with nucleic acids to facilitate their intracellular delivery both in vitro and for in vivo therapeutic applications. The lipids of the present invention are characterized as particularly hydrolytically and alcoholytically stable, while maintaining their biological activity.



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