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(54) Title: LIPID NANOPARTICLE FORMULATIONS COMPRISING LIPIDATED CATIONIC PEPTIDE COMPOUNDS FOR NUCLEIC ACID DELIVERY

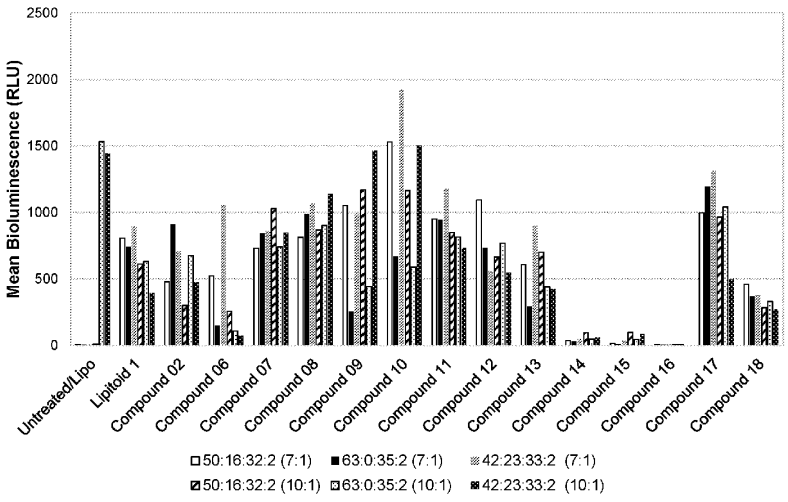


FIG. 5

(57) Abstract: The present disclosure relates to lipid mixtures comprising lipidated cationic peptide compounds, such as tertiary amino lipidated and/or PEGylated cationic peptide compounds or lipitoids, for nucleic acid delivery. More specifically, the present disclosure relates to lipid nanoparticle formulations comprising lipidated cationic peptide compounds and other lipid components including structural lipid, phospholipid and shielding lipids. The present disclosure also relates to methods of preparing and using the lipid mixtures.

[Continued on next page]

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