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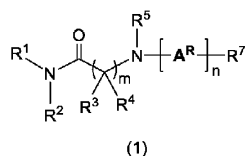
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(54) Title: A COMPOUND FOR PREPARING LIPID NANOPARTICLES ENCAPSULATING AN AGENT, NANOPARTICLE COMPOSITION COMPRISING SAID COMPOUND AND RELATED METHODS THEREOF



(57) Abstract: There is provided a compound represented by general formula (1) for preparing lipid nanoparticles encapsulating a therapeutic, prophylactic and/or biological agent: wherein AR comprises a unit from a poly(amine acid); R1 and R2 are each independently a hydrophobic group; R3, R4, and R5 are each independently H, optionally substituted alkyl, optionally substituted alkenyl or optionally substituted alkynyl; R7 is -H or -C(=O)R8, wherein R8 is optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl or optionally substituted alkoxy; m ≥ 1; and n ≥ 1.

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