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(71) Applicant: **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 1 Fusionopolis Way, #20-10 Connexis North Tower, Singapore 138632 (SG).

(72) Inventors: **YANG, Yi Yan**; c/o Institute of Bioengineering and Bioimaging, 31 Biopolis Way, #07-01 Nanos, Singapore 138669 (SG). **CHUA, Boon Lin**; c/o Institute of Bioengineering and Bioimaging, 31 Biopolis Way, #07-01 Nanos, Singapore 138669 (SG). **YANG, Chuan**; c/o Institute of Bioengineering and Bioimaging, 31 Biopolis Way, #07-01 Nanos, Singapore 138669 (SG).

(74) Agent: **DONALDSON & BURKINSHAW LLP**; P.O. Box 3667 Robinson Road Post Office, Singapore 905667 (SG).

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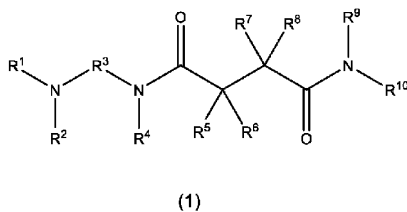
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(54) Title: A NANOPARTICLE COMPOSITION AND RELATED METHODS THEREOF



(57) Abstract: There is provided a nanoparticle composition comprising a compound represented by general formula (1) or ionized form thereof, wherein R¹, R², and R⁴ to R⁸ are each independently H, optionally substituted alkyl, optionally substituted alkenyl, or optionally substituted alkynyl, R³ is optionally substituted alkylene, optionally substituted alkenylene, or optionally substituted alkynylene, and R⁹ and R¹⁰ are each independently a hydrophobic tail or contains at least one of the groups defined above for R⁴ to R⁸, a therapeutic, prophylactic, and/or biological agent that is encapsulated by the compound of general formula (1) to form nanoparticles; and a cryoprotectant. There is also provided a method of preparing said nanoparticle composition.

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