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(54) **TARGETED CANCER CHEMOTHERAPY USING SYNTHETIC NANOPARTICLES**

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(57) **ABSTRACT**

Compositions and methods for delivery of a pharmaceutical to an individual. Delivery vehicles are provided in a formulation of a pharmaceutical that is encapsulated in a synthetic self assembled nanoparticle that includes a lipid binding protein and a lipid monolayer. The interior of the particle represents a hydrophobic core region where lipophilic highly-water insoluble drug molecules may be incorporated. In contrast to liposomes, that include an aqueous interior core surrounded by phospholipid bilayer, the drug carrier nanoparticle described here is composed of a monolayer and a hydrophobic interior.

