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Lipotomes: A novel nanovesicular platform for enhanced oral drug delivery

Lipotomes is novel lipid-based nano carriers composed of cetyl alcohol and surfactant such as Tween 80. Lipotomes combine Lipothel lipophilic environment of cetyl alcohol and solubilizing effect of Tween 80 and so, it offers a dual action for increasing drug bioavailability. Consequently, lipotomes could be the key tool for the bioavailability enhancement of water insoluble drugs suffering from a significant inactivation by the first pass effect. Moreover, prolipotomes has been developed to increase its physical stability though out the shelf-life. Prolipotomes are hydrated after administration to form the lipotomal nanovesicles in situ. On the other hand, lipotomes can enhance transdermal delivery of wide range of drugs due to its nano-size and the presence of Tween 80 that can act as a physical penetration enhancer through disrupting the lipid layers of the skin.

Biography

Ibrahim Elsayed is an Associate Professor and Chair of Pharmaceutical Sciences department at Gulf Medical University, Ajman UAE. He has completed his PhD in Pharmaceutics and Industrial Pharmacy from Cairo University. He pursued his Graduation in Health-Professions Education from Gulf Medical University. He has published 16 research articles in reputed international journals like International Journal of Pharmaceutics, International Journal of Nanomedicine and Expert Opinion in Drug Delivery.

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