

Targeted and Triggered Chitosan lipid core shell nanoparticles for combination chemotherapy

The present invention is to develop a chitosan lipid core shell nanoparticle for simultaneous delivery of two or more anticancer drugs. The size of chitosan lipid core shell nanoparticle is designed to be less than 200 nm having an enzyme responsive drug release at each cancerous sites. The particles are further conjugated with transferrin peptide to target over expressed transferrin receptors on the surface of malignant cells. These nanoparticles are developed for targeted and triggered delivery of two or more anticancer drugs which act synergistically.

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