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(57) Abstract :

The present invention discloses surface modified solid lipid nanoparticles of methotrexate. More particularly, the invention discloses surface modified solid lipid nanoparticles of methotrexate, wherein the surface modification is done to overcome the multidrug resistance of cancer cells thereby leading to reduction in the toxicity to normal cells and improves therapeutic efficacy. More specifically, the surface modification is done using antiviral drug - Ritonavir as a P-gp inhibitor.

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