

عنوان مقاله:

PMBN as an Anionic Polymer, a Desirable Choice for Cancer Treatment

محل انتشار:

دوازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1395)

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خلاصه مقاله:

To overcome difficulty of cancer treatment by conventional chemotherapy, the targeted drug delivery based on Nano carriers has been grown up rapidly. PMBN as amphiphilic Nano polymer that could be easily targeted and solubilize hydrophobic agents are so interested these days. So, for targeting Leukemia Stem Cells which overexpressed CD123 receptors, Interleukin 3 ligand was conjugated to the polymer, and Ganoderic Acid derivative A as fungal metabolite with acceptable anti-cancer properties incorporated to polymer. The efficiency of conjugation and loading were 72.1% and 77.5%, respectively. Analysis of conjugate polymer clear that polymer is rod shaped, with Size around 160 ± 30 nm and zeta potential of -43.8 mv. These data indicate that PMBN-IL3-GA is an anionic Nano system with acceptable size and structure that could be a good alternative for cancer therapy

کلمات کلیدی:

PMBN-Anionic Polymer-GA-A-Interleukin 3-Cancer Therapy

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