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The targeting Properties of Folate-conjugate Pluronic F127/poly (lactic-co-glycolic) nanoparticles

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HIGHLIGHTS

- Novel folate FA-F127-PLGA copolymer was synthesized for targeted drug delivery.
- The *in vitro* enhanced antitumor efficiency and higher cellular uptake of FA-F127-PLGA nanoparticles indicated that PTX loaded in folate-targeted FA-F127-PLGA were delivered more effectively into OVCAR-3 cells than that in PLGA-F127-PLGA.
- PTX-loaded FA-F127-PLGA nanoparticles could sustain for a long time in plasma, thus prolong the circulation time of PTX compared to Taxol.

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