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Lymphatic Delivery of Anticancer Drug by Lipid Microspheres Containing Prodrug of 5'-Deoxy-5-fluorouridine

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Lipid microspheres (LM) containing lipophilic prodrug of 5'-deoxy-5-fluorouridine (5'-DFUR), 2',3'-didecanoyl-5'-deoxy-5-fluorouridine (C10-5'-DFUR), were prepared. The cumulative lymphatic transport of 5'-DFUR following oral administration of C10-5'-DFUR-LM to rats was higher than that of C10-5'-DFUR solution. LM is effective for directed delivery of the drug to lymph duct.