SUSTAINED RELEASE FORMULATIONS USING NON-AQUEOUS CARRIERS

Abstract

The disclosure provides one-component, injectable, sustained release formulations which comprise microspheres containing active pharmaceutical ingredients (e.g., exenatide), wherein the microspheres are suspended in a non-aqueous carrier. The non-aqueous carrier can be an oil, a fractionated oil, triglycerides, diglycerides, monoglycerides, propylene glycol fatty acid diesters, and the like. The formulations offer distinct advantages of long shelf life for the stability and potency of the formulation and sustained release of active pharmaceutical ingredients to reduce the frequency of medication dosing and to increase patient compliance.

Figure 1