ABSTRACT

PHARMACEUTICAL FORMULATIONS FOR THE PROLONGED RELEASE OF INTERFERONS AND THEIR THERAPEUTIC APPLICATIONS

The present invention relates to novel pharmaceutical formulations based on stable, fluid aqueous colloidal suspensions for the prolonged release of an interferon (IFN) (and one or more other possible active principles), and to the applications, especially therapeutic applications, of these formulations.

The object of the invention is to propose a fluid pharmaceutical formulation for the prolonged release of interferon(s) (and one or more other possible active principles) that makes it possible, after parenteral injection, significantly to increase the in vivo release time of the interferons while at the same time reducing the plasma concentration peak of this IFN, said formulation furthermore being stable on storage and also being biocompatible, biodegradable, non-toxic and non-immunogenic and having a good local tolerance.

The formulation according to the invention is an aqueous colloidal suspension of low viscosity based on submicronic particles of water-soluble biodegradable polymer PO carrying hydrophobic groups (HG), said particles being non-covalently associated with at least one interferon (and one or more other possible active principles) and forming a gelled deposit at the injection site, this gelling being caused by a protein present in the physiological medium.



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