

Oral Lipid Based Formulations Enhancing The Bioavailability Of Poorly Water Soluble Drugs Drugs And The Pharmaceutical Sciences

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Oral Lipid Based Formulations Enhancing

Oral lipid-based formulations are attracting considerable attention due to their capacity to facilitate gastrointestinal absorption and reduce or eliminate the effect of food on the absorption of poorly water-soluble, lipophilic drugs.

Oral Lipid-Based Formulations: Enhancing the ...

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Oral Lipid-Based Formulations: Enhancing the ...

Abstract. Poor drug solubility remains a significant and frequently encountered problem for pharmaceutical scientists. The ability of lipid-based formulations to facilitate gastrointestinal absorption of many poorly soluble drug candidates has been thoroughly documented in the published literature. However, a considerable gap exists between our knowledge of this technology and the know-how required for its application.

Oral lipid-based formulations - ScienceDirect

Oral Lipid-Based Formulations covers the theoretical and practical aspects of oral lipid-based formulations for use in industry, and provides further insights into a developing technology expected to assume increasing prominence in years to come.

Oral Lipid-Based Formulations: Enhancing the ...

Lipid formulations are shown to improve the bioavailability of cannabinoids by improving solubility, intestinal permeability, and enhancement of the lymphatic route of absorption. Among the key mechanisms associated with oral lipid formulations in enhancing bioavailability is the

Lipid Excipients for Cannabinoid Drug Products

However, it is increasingly apparent that formulations containing natural and/or synthetic lipids present a viable means for enhancing the oral bioavailability of some poorly water-soluble, highly lipophilic drugs. This Review details the mechanisms by which lipids and lipidic excipients affect the oral absorption of lipophilic drugs and provides a perspective on the possible future applications of lipid-based delivery systems.

Lipids and lipid-based formulations: optimizing the oral ...

2. Currently marketed oral lipid-based formulation products. As determined in a recently published survey by Strickley, oral lipid-based formulations have been marketed for over 2 decades and currently comprise an estimated 2-4% of the commercially available drug products surveyed in 3 markets worldwide . . These products accounted for ...

Oral lipid-based formulations - ScienceDirect

DOI link for Oral Lipid-Based Formulations. Oral Lipid-Based Formulations book. Enhancing the Bioavailability of Poorly Water-Soluble Drugs. Edited ByDavid J. Hauss. Edition 1st Edition. First Published 2007. eBook Published 8 June 2007. Pub. location Boca Raton. Imprint CRC Press.

Oral Lipid-Based Formulations - Taylor & Francis Group

The primary mechanisms by which lipid-based drug formulations enhance drug solubilization within the GI tract are by presentation as a solubilized formulation (thereby avoid- ing solid-state...

Lipids and lipid-based formulations: optimizing the oral ...

INTRODUCTION TO LIPID-BASED DOSAGE FORMS Lipid-based drug delivery systems (LBDDS) is a wide-ranging designation for formulations containing a dissolved or suspended drug in lipidic excipients. Lipids are esters of fatty acids - lipophilic hydrocarbon chains linked to a hydrophilic group like glycerol, polyglycerol, or polyalcohol (Figure 1).

LIPID-BASED DELIVERY - Are Lipid-Based Drug Delivery ...

Lipid-based systems such as SLNs have also been widely investigated to improve the bioavailability and to achieve the sustained release for poorly soluble/lipophilic drugs like paclitaxel (24-27). SLNs are also being studied for bioavailability enhancement of poorly soluble drugs after oral administration (28).

Development of Lipid-Based Nanoparticles for Enhancing the ...

Enhancing the Oral Absorption of Kinase Inhibitors Using Lipophilic Salts and Lipid-Based Formulations | Molecular Pharmaceutics The absolute bioavailability of many small molecule kinase inhibitors (smKis) is low. The reasons for low bioavailability are multifaceted and include constraints due to first pass metabolism and poor absorption.

Enhancing the Oral Absorption of Kinase Inhibitors Using ...

The ability of lipid-based formulations to facilitate gastrointestinal absorption of many poorly soluble drug candidates has been thoroughly documented in the published literature. However, a considerable gap exists between our knowledge of this technology and the know-how required for its application.

Oral lipid-based formulations - PubMed

A number of solubility and/or dissolution enhancing approaches including particle size reduction, solid dispersions, lipid-based formulations and co-crystals, were considered in order to improve the compound's oral bioavailability.

Selection of Oral Bioavailability Enhancing Formulations ...

Increasing numbers of beyond Rule-of-Five drugs are emerging from discovery pipelines, generating a need for bio-enabling formulation approaches, such as lipid-based formulations (LBF), to ensure...

(PDF) Supersaturated Lipid-Based Formulations to Enhance ...

mechanisms associated with oral lipid formulations in enhancing bioavailability is the improved drug wettability and dispersion in the GI fluids, through natural digestion mechanisms that help maintain drug solubilization in vivo. The effect lasts long enough for the drug to approach the enterocytes

Lipid Excipients for Cannabinoid Drug Products | Pharma ...

Lipid formulations have proven applications in enhancing oral bioavailability and providing a rapid onset of action. Access to more lipid-soluble forms of API broadens these applications of lipid formulations as increased lipid solubility allows higher API loadings and therefore the need for a fewer number or smaller size dosage forms.