

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341088582 A

(19) INDIA

(22) Date of filing of Application :25/12/2023

(43) Publication Date : 19/01/2024

(54) Title of the invention : A NOVEL COMPOSITION FOR ENHANCING THE TARGETING EFFICACY IN THE TREATMENT OF RHEUMATOID ARTHRITIS

(51) International classification	:A61K0090000000, A61K009510000, A61K0047690000, A61K0009127000, B82Y0005000000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :  
 A NOVEL COMPOSITION FOR ENHANCING THE TARGETING EFFICACY OF THE SELECTED DRUGS: A novel composition for enhancing the targeting efficacy in the treatment of selected drugs relates to a composition of lipid, Saquinavir, Surfactant and hyaluronic acid% and the process of preparing the same. SQV-loaded nanoparticles and those coated with HA exhibited a reduction in peak intensity for SQV and GMS compared to their individual crystalline states. This reduction suggests successful interactions between drug and lipid components facilitated by the less-ordered lipid crystal lattices within the nanoparticles. This structural arrangement enhances drug encapsulation and stability by inhibiting rapid drug expulsion, due to GMS, an essential lipid component, contributing to this effect with its amorphous structure, creating additional space within the nanoparticles for drug accommodation. This expanded capacity limits drug expulsion and enhances drug-loading efficiency, underscoring the pivotal role of lipid composition and structure in optimizing nanoparticle formulations for improved drug delivery.

No. of Pages : 39 No. of Claims : 18