

Patent Search

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Inventor	

Name	Address	Country	Nation
DR. RUPAL DUBEY	400, "BRIJ-NIKUNJ", LANE-2, MANORAMA COLONY, SAGAR-470001, MADHYA PRADESH, INDIA.	India	India
DR. SANJAY KUMAR JAIN	DEPT. OF PHARMACEUTICAL SCIENCES, DR. HARI SINGH GOUR UNIVERSITY, SAGAR-47002, MADHYA PRADESH, INDIA.	India	India

Applicant

Name	Address	Country	Nation
DR. RUPAL DUBEY	400, "BRIJ-NIKUNJ", LANE-2, MANORAMA COLONY, SAGAR-470001, MADHYA PRADESH, INDIA.	India	India

Abstract

The treatment of brain tumour is a challenging task for the physicians and the scientists who are involved in the research of development of proper drug delivery systems because of the presence of blood brain barrier (BBB) as well as P-gp efflux pump which produces restriction in the transportation of drug into brain. Hence it is envisaged develop such delivery system which will not only help to deliver anticancer drug to brain but also target the brain tumour cells. Present invention relates to the drug delivery system consisted of surface modified (i.e., appended with transferrin) PLGA nanoparticles bearing ligand conjugated anticancer drug (i.e. Paclitaxel-Hyaluronic acid Bioconjugate). The transferrin attached to the surface of PLGA nanoparticle is helping nanoparticles to cross the BBB by a receptor mediated endocytosis while paclitaxel-HA Bioconjugate the drug to brain tumour site as CD44 receptors are over expressed on brain tumour cells which are responsible receptors for HA uptake. The concluded that transferrin-PLGA nanoparticles bearing Paclitaxel-HA bioconjugate are the potential carrier for targeting the anticancer drug to the brain tumour.

Complete Specification

FORM 2

THE PATENTS ACT, 1970
(39 of 1970)

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THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(see section 10 and rule 13)

PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF BRAIN
TUMOUR AND METHOD THEREOF

Dr. Rupal Dubey

An Indian National 400, Lane-2, Manprama Colony, Sagar, -470001, Madhya Pradesh, India

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION AND THE MANNER IN WHICH IT IS TO BE PERFORMED

FIELD OF THE INVENTION

The present invention relates to a pharmaceutical composition useful for the treatment of brain tumour and methods for preparing the same. The present invention me

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