(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/12/2023

(21) Application No.202321086930 A
(43) Publication Date : 23/02/2024

(54) Title of the invention : NOVEL QUINOLINE DERIVATIVES CONTAINING SUBSTITUTED OXADIAZOLE AS AN ANTICANCER AGENT

(51) International classification :A61K31/47, A61P35/00, C07D215/00, C07D457/00, C07F9/00, C09B21/00, C09B29/44, C09B31/157
(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 :
ABSTRACT Novel quinoline derivatives containing substituted oxadiazole as an anticancer agent The present invention relates to the synthesis of novel quinoline derivatives containing substituted oxadiazole and evaluation of their anti-cancer activities. The quinolone based 1,2,4-oxadiazol-5(4H)-one ring (6a to 6p) derivatives and 1,2,4-oxadiazole-5(4H)-thione ring (7a to 7p) derivatives are synthesized using the formula (I). The anti-cancer activities of synthesized hybrid molecules show promising anticancer activity on Central Nervous System Cancer Cell Line: SNB-75, Melanoma Cell Line: MDA-MB 435 & SK-MEL 5, and in Breast Cancer Cell Line: T- 47D & MDA-MB-468 cell-lines. (I)

No. of Pages : 42 No. of Claims : 4