

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 38/2022
ISSUE NO. 38/2022

शुक्रवार
FRIDAY

दिनांक: 23/09/2022
DATE: 23/09/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221052997 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 23/09/2022

(54) Title of the invention : SYNTHESIS AND IN-SILICO STUDY OF NOVEL 1,3,4-OXADIAZOLE DERIVATIVES WITH ANTICANCER ACTIVITY

(51) International classification :C07K0001000000, B82Y0030000000, C07K0005080000, C07K0005060000, C07F0009655800
(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 :
The present invention relates to a series of substituted derivatives of 1,3,4-oxadiazole using both the convention method and microwave radiation assistance method where the compound synthesized by microwave radiation method produces high yield and purity. Synthesized compounds are analyzed by TLC. Compounds have a strong affinity for binding to receptor- potent inhibitors NUDT5, which suppress hormone signaling in breast cancer. The optimal geometry of contact between ligand- receptor complexes with lowest energy were docked using three separate scoring functions i.e., the dock score alone, electrostatics, and the combination of steric and electrostatic forces. 5-fluorouracil has a dock score of -53.65.

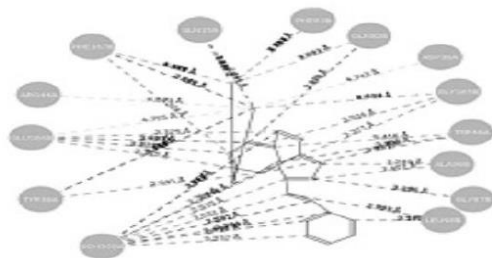


Figure 6

No. of Pages : 20 No. of Claims : 10