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(57) Abstract :
The present invention relates to the antiepileptic acetophenone derivatives, compute physicochemical parameters, and perform a docking analysis. Condensing {2-(4-acetylphenoxy)-N-(benzo[d]thiazol-2-yl)acetamide} with substituted anilines in ethanol and refluxing the reaction mixture for 14 to 16 hours in glacial acetic acid yielded acetophenone derivatives. The structures of newly synthesized substances were characterized using Infrared spectroscopy and uclear Magnetic Resonance spectroscopy. The research showed that of the four target compounds, Y-2; N-(benzo[d]thiazol-2-yl)-2-(4-(1-((3-methoxyphenyl)imino)ethyl)phenoxy) acetamide seemed to have the most powerful antiepileptic inuence. According to the research results, Y-2 could be a new promising lead moiety for the development of antiepileptic medications.

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