



In silico ADMET, Drug Likeness Properties and Rapid one pot Microwave Assisted Synthesis of Novel 2, 6-di (furan-2-yl)-4-phenylpyridine Analogues

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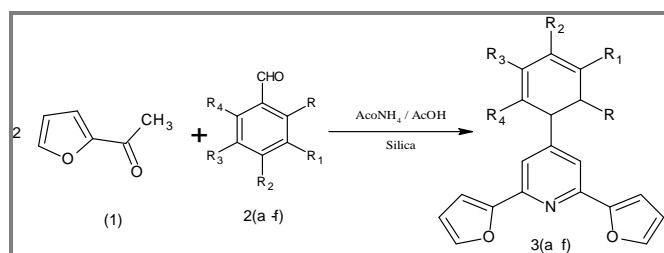
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ABSTRACT

A rapid one pot synthesis of title compounds was achieved by microwave irradiation of 2-acetyl furan and substituted aromatic aldehydes in the presence of acetic acid. The structures of synthesized molecules were confirmed by spectral characterization using ¹H NMR, ¹³C NMR and mass spectra. The *in silico* ADMET (absorption, distribution, metabolism, excretion and toxicity) studies were carried out to predict the safety, efficacy of the molecules based on the physicochemical properties. The molecules exhibited acceptable range in ADMET prediction and bioactive score. The ADMET study exhibited a less toxic nature and it encourages us to look into the preliminary screening of different pharmacological assays.

Graphical Abstract



Keywords: Furan, aldehydes, drug likeness and ADMET.