



## Synthesis and Yeast-based Screening of 1,3-benzodioxole Derivatives for SIRT1 Activators

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**SUMMARY.** Novel 1, 3-benzodioxole derivatives were synthesized and characterized by <sup>1</sup>H-NMR, <sup>13</sup>C-NMR and IR. The synthesized 1,3-benzodioxole derivatives were tested against yeast Sir2 of human SIRT1 homology for seeking new candidates of SIRT1 activator compared with known SIRT1 activator resveratrol. The details of SAR were also addressed based on structural variation of 1, 3-benzodioxole derivatives.

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**KEY WORDS:** 1, 3-benzodioxole derivatives; SIRT1 activator; Sir2; Yeast screening.

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