

Abstract

G Select Language | ▼
Translator disclaimer

New mono aspirinate thiourea-azo derivatives **2a-f** were synthesized using aspirin as a natural product-based precursor, with 4-aminophenylazophenol derivatives in excellent 70-90% yields. Overall, **2a-f** gave excellent antibacterial activity against *Staphylococcus aureus* S48/81 and 2-(((3-((2-bromophenyl)diazenyl)-4-hydroxyphenyl)carbamothioyl)carbamoyl)phenyl acetate **(2d)** exhibited a larger zone of inhibition 10 mm, comparable to the standard ampicillin. The molecular docking analysis of **2d** against *S. aureus* tyrosyl-tRNA synthetase protein displayed a free energy interaction of -7.7 kcal/mol compared to aspirin (-6.4 kcal/mol).







Related articles ()

