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Thieno [3,2-d] pyrimidin-4-one Derivatives as Potential Antibacterial Agents

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ABSTRACT Several thieno [3,2-*d*]pyrimidin-4-ones (**4a-i**) were conveniently prepared by the thioclaisen rearrangement of 5-prop-2-ynylsulfanyl pyrimidin-4-ones derivatives. The constitution of the products was supported by IR, PMR and mass spectral study. The compounds synthesized were tested in vitro against gram positive microorganisms, *Bacillus subtilis*, *Bacillus cereus*, *Staphlococus aureus*, *Enterococcus faecalis* and gram negative microorganism *Eseherichia coli*, *Pseudomonas aeruginosa*, *Proteus vulgaris*, *Klabsiella pneumoniae* and *Shigella sonnei*. Standard drugs were also tested under identical conditions for comparing the results.