Pyridine derivatives

R 0380

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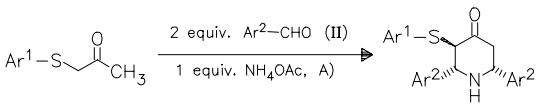
Synthesis, Stereochemistry, and Antimicrobial Activity of 2,6-Diaryl-3-(arylthio)piperidin-4-ones. — A series of novel 3-arylthiopiperidinone derivatives (20 examples in all) is synthesized via multicomponent reactions and evaluated for antibacterial and antifungal effects. Derivatives (IIIc), (Vb) and (VIIb), show almost the same antibacterial activity as streptomycin and antifungal activity comparable to nystatin. — (SRINIVASAN, M.; PERUMAL*, S.; SELVARAJ, S.; Chem. Pharm. Bull. 54 (2006) 6, 795-801; Dep. Org. Chem., Madurai Kamaraj Univ., Madurai 625 021,Tamil Nadu, India; Eng.) — H. Toeppel

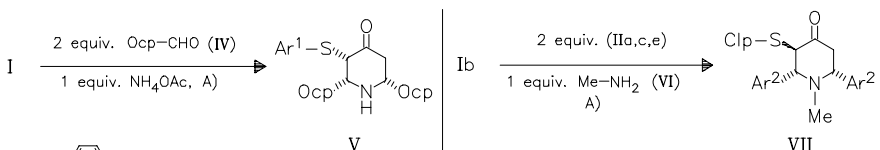


I

a Ar^1: —Ph
b Ar^1: —Clp
c Ar^1: —Tol

III

a Ar^1, Ar^2: —Ph 45%
b Ar^1: —Ph ; Ar^2: —O—Me 38%
c Ar^1, Ar^2: —Clp 32%
d Ar^1: —Tol ; Ar^2: —Clp 50%
e Ar^1: —Clp ; Ar^2: —Tol 38%



V

a 41%
b 42%
c 46%

VII

a Ar^2: —Ph 47%
c Ar^2: —Clp 48%
e Ar^2: —Tol 45%