

Title (en)
PROCESS FOR MAKING DIHYDROPYRIMIDINONES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON DIHYDROPYRIMIDONEN

Title (fr)
PROCEDE RELATIF A LA FABRICATION DE DIHYDROPYRIMIDINONES

Publication
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Application
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Priority

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Abstract (en)
[origin: WO9721687A1] The present invention provides a process for forming 5-(alkyl or alkoxy)carbonyl-6-alkyl-4-(aryl or alkyl)-3,4,2(1H)-dihydropyrimidinones by combining a beta -keto ester or diketone, an aldehyde and urea in the presence of a boron reagent, a metal salt (e.g., Cu₂O) and a catalyst (e.g., acid). The reaction is typically run in one pot in a solvent to afford dihydropyrimidinones in higher yields and with easier work up than previously known methods.

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Citation (search report)

- [A] EP 0157219 A1 19851009 - SUNTORY LTD [JP]
- [DA] US 4675321 A 19870623 - BALDWIN JOHN J [US], et al
- [A] C.O. KAPPE: "100 YEARS OF THE BIGINELLI DIHYDROPYRIMIDINE SYNTHESIS", TETRAHEDRON, vol. 32, 1993, pages 6937 - 63, XP002092173
- [DA] H. CHO ET AL.: "Dihydropyrimidines: novel Calcium antagonists with potent and long-lasting vasodilative and antihypertensive activity", JOURNAL OF MEDICINAL CHEMISTRY, vol. 32, no. 10, 1989, pages 2399 - 2406, XP002092174
- See references of WO 9721687A1

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