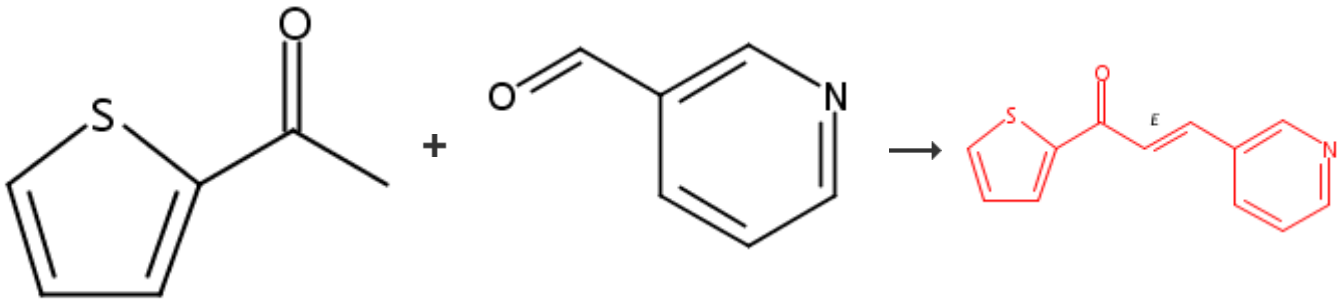
1. Single Step



99%

Overview

Steps/Stages

1.1 R:KOH, S:H_2O, S:MeOH, 10 min, 0°C; 3 h, 0°C

Notes

stereoselective, Reactants: 2, Reagents: 1, Solvents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

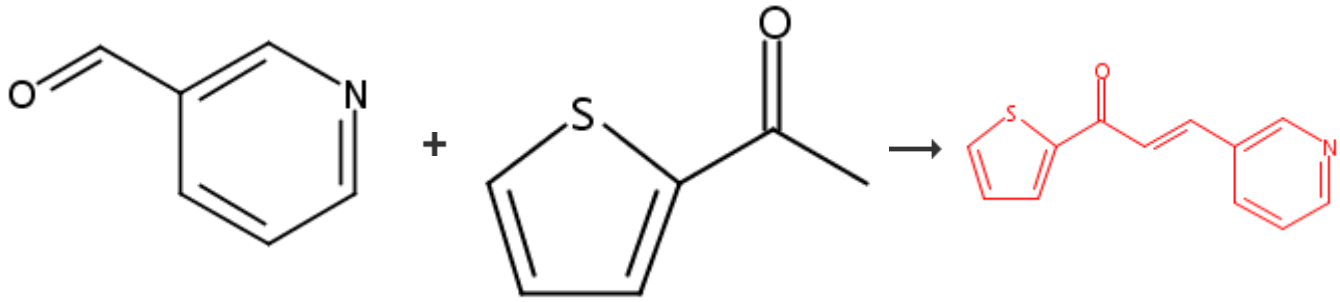
References

2,6-Dithienyl-4-arylpyridines: Synthesis, topoisomerase I and II inhibition and structure-activity relationship

By Thapa, Pritam et al

From Bulletin of the Korean Chemical Society, 29(8), 1605-1608; 2008

2. Single Step



98%

Overview

Steps/Stages

1.1 R:KOH, S:H_2O, S:MeOH, 0°C
1.2 10 min, 0°C; 3 h, 0°C

Notes

Reactants: 2, Reagents: 1, Solvents: 2, Steps: 1, Stages: 2, Most stages in any one step: 2

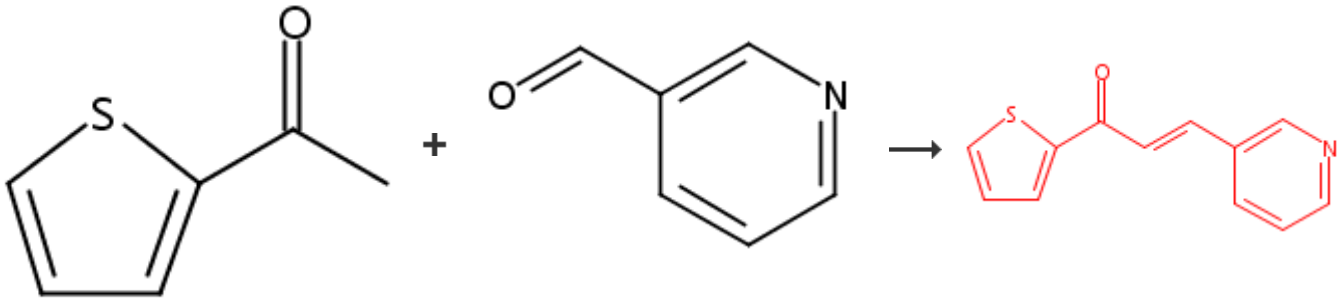
References

2,4,6-Trisubstituted pyridines: Synthesis, topoisomerase I and II inhibitory activity, cytotoxicity, and structure-activity relationship

By Basnet, Arjun et al

From Bioorganic & Medicinal Chemistry, 15(13), 4351-4359; 2007

3. Single Step



47%

Overview

Steps/Stages

1.1 R:KOH, S:H_2O, S:MeOH, 10 min, 0°C; 3 h, 0°C

Notes

Reactants: 2, Reagents: 1, Solvents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

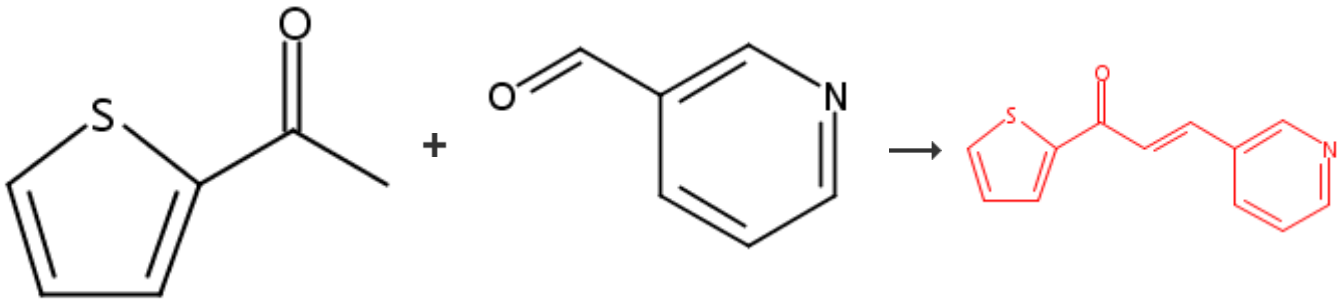
References

Synthesis of pyridine derivatives and composition comprising them for prevention and treatment of cancer disease

By Lee, Eung Seok et al

From Repub. Korean Kongkae Taeho Kongbo, 2007095016, 28 Sep 2007

4. Single Step



51%

Overview

Steps/Stages

Notes

1.1 R:NaOH, S:H_2O

1.2 R:$(CO_2H)_2$, S:H_2O

Reactants: 2, Reagents: 2, Solvents: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

Multicyclic pyridines. Part 6. Synthesis of new heterocycle substituted 2-thioxo-1,2-dihydropyridine-3-carbonitriles

By Vieweg, H. et al

From Pharmazie, 44(9), 639-40; 1989