

NOTES

麝香酮中间体的仿生合成

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摘要 受四氢叶酸辅酶的一碳单元转移反应的启发, 以双苯并咪唑盐作为四氢叶酸辅酶模型, 利用甲基碘化镁与双苯并咪唑盐的加成-水解反应, 成功合成了麝香酮的重要前体2, 15-十六二酮。

关键词 [仿生合成, 麝香酮, 2,15-十六二酮, 四氢叶酸辅酶, 双苯并咪唑盐, 甲基碘化镁](#)

分类号

Synthesis of 2,15-Hexadecanedione as a Precursor of Muscone

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Abstract Muscone is a precious fragrant compound scarce in nature. Many synthetic attempts for this unique natural product have been carried out. In this work, the one-carbon unit transfer reaction of tetrahydrofolate coenzyme was initiated. Bisbenzimidazolium salt was used as tetrahydrofolate coenzyme model, and thus the biomimetic synthesis of 2,15-hexadecanedione, a precursor of muscone, was successfully accomplished by using the addition-hydrolysis reaction of bisbenzimidazolium salt with methyl magnesium iodide.

Key words [biomimetic synthesis](#) [muscone](#) [2, 15-hexadecanedione](#) [tetrahydrofolate coenzyme](#) [bisbenzimidazolium salt](#) [methyl magnesium iodide](#)

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