

Supplementary Information

A ONE-POT, GREEN SYNTHESIS OF BETTI BASE CONTAINING ADENINE DERIVATIVES IN AQUEOUS MEDIUM

Dulin Kong,^{1,2} Zhongxiang Zhu,³ Jie Jiang,³ Luyong Wu³, Xianghui Wang³, Zaifeng Shi³, Qiang Lin,^{2,3*} and Mingshu Wu^{3*}

¹ Chemical Engineering College, Nanjing University of Science & Technology, Nanjing, Jiangsu 210094, P. R. China

²School of Pharmaceutical Sciences, Hainan Medical University, Haikou 571199, Hainan Province, P.R. China

³Key Laboratory of Tropical Medicinal Plant Chemistry of the Ministry of Education, College of Chemistry & Chemical Engineering, Hainan Normal University, Haikou 571158, P.R. China.

*Corresponding author. Tel.: +86(0898) 65883398.

E-mail address: wms@hainnu.edu.cn, linqianggroup@163.com

Table of Contents

General Information 2

Experimental Section 2

Copies of ¹H and ¹³C NMR Spectra 3-17

General Information: All compounds were fully characterized by spectroscopic data. The NMR spectra were recorded on a Bruker Avance III (^1H : 400 MHz, ^{13}C : 100 MHz), chemical shifts (δ) are expressed in ppm, and J values are given in Hz, and DMSO- d_6 was used as solvent. The reactions were monitored by thin layer chromatography (TLC) using silica gel GF254. HRMS (ESI) analysis was measured on a LCMS-IT-TOF instrument. IR spectra were recorded on a Thermo Scientific Nicolet 6700 Fourier IR spectrometer(ATIR) in KBr pellet. All chemicals and solvents were used as received without further purification unless otherwise stated.

Experimental Section

General Procedure for Preparation of targeted moleculars(take compound 1 as example).

To a solution of 10 wt% SDS/ H_2O (3 mL) were added adenine (2 mmol), benzaldehyde (2 mmol), 2-naphthol (2 mmol) and TsOH (20% mmol). The mixture was stirred at 80 °C for several hours and monitored by TLC. After the reaction was complete, the reaction mixture was filtered and the precipitate washed with hot H_2O . The crude products were purified by recrystallization from ethanol in 80% yields.





























