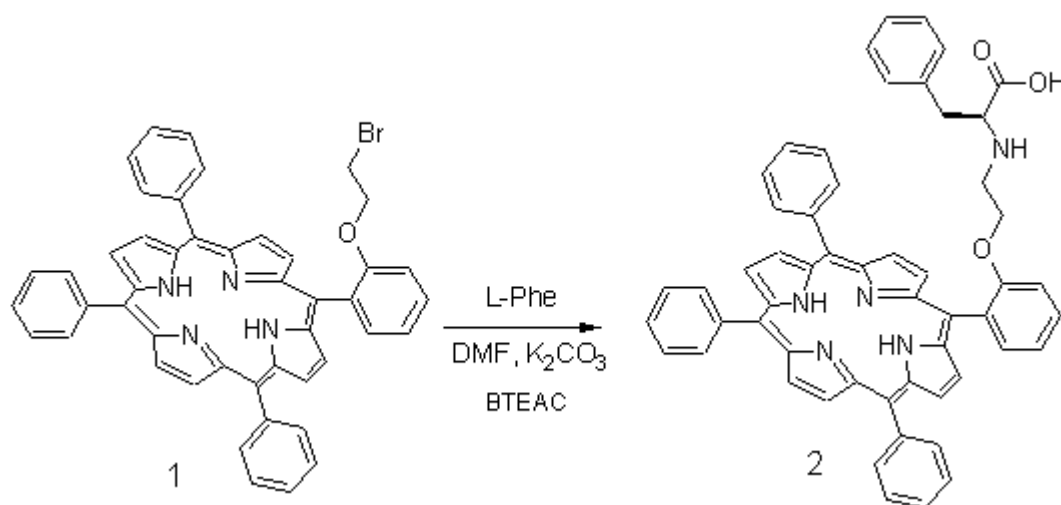


5-[*o*-(1-L-Phenylalanyl)ethoxy]phenyl-10,15,20-triphenylporphyrinHai-yang Liu^{1*}, Xi-ming Hu^{1*}, Xiao Ying², Zhong-ping Yao³, Jin-wang Huang and Liang-nian Ji^{4*}¹Department of Applied Chemistry, ²Department of Physics, South China University of technology, Guangzhou 510641, China. (E-mail: chhyliu@scut.edu.cn; huximing@163.net)³Department of Chemistry, Hong Kong University of Science and Technology, Hong Kong, China⁴Department of Chemistry, Zhongshan University, Guangzhou 510275, China

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5-[*o*-(2-bromo-1-ethoxy)]phenyl-10,15,20-triphenylporphyrin (**1**) was prepared according to published method [1]. The mixture of **1** (0.35mmol), L-phenylalanine (2.60mmol), BTEAC (28mg) and anhydrous potassium carbonate (4g) was stirred in DMF (50ml) at room temperature for 72 hours. Reaction mixture was then poured into saturated NaCl solution (150ml). The precipitate was filtered and washed several times with water, dried in vacuum. The crude product was purified by chromatography on silica gel. The column was first washed sufficiently with chloroform and then CHCl₃:CH₃CH₂OH (v:v, 1:1) was used as eluent and the second band was collected. The solvent was evaporated to give 0.034g (11.8%) of 5-[*o*-(1-L-Phenylalanyl)ethoxy]phenyl-10,15,20-triphenylporphyrin (**2**) as a purple solid.

IR (KBr): 3314 (w), 3025 (w), 1594 (m), 1489 (w), 1470 (m), 1440 (m), 1391 (w), 1347 (m), 1307 (w), 1239 (w), 1208 (w), 1180 (w), 1155 (w), 1116 (w), 1068 (m), 1027 (w), 1000 (w), 965 (s), 918 (w), 876 (w), 845 (w), 796 (s), 724 (s), 700 (s), 656 (w), 554 (w), 403 (w).

UV-Vis (DMSO): 418.5, 514.5, 548.9, 589.7, 645.3.

¹H-NMR (400 MHz, d⁶-DMSO/CDCl₃, 1:1, V:V): -2.90 (s, 2H, pyrrole NH), 1.18 (m, 1H, C^{*}H), 1.58 (br. s, 1H, CH₂), 1.77 (br. s, 1H, CH₂), 2.06 (br. s, 1H, NH), 2.24 (br. s, 1H, CH₂), 2.55 (br. s, 1H, CH₂), 3.90 (br. d, 2H, CH₂), 6.04 (br. s, 2H, phenyl of Phe), 6.44 (br. s, 2H, Phenyl of Phe), 6.61 (br. s, 1H, phenyl of Phe), 7.30-8.09 (several m, 19H, TPP Ph-H), 8.74 (br. s, 8H, pyrrole -H).

FAB-MS ([M+1]⁺): 822.

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Reference

1. Ji, L.-N.; Qin X.; Huang J.-W. *Acta Scientiarum Naturalium Universitatis Sunyatseni* **1993**, 32(2), 1.

Sample Availability: Available from the authors and from MDPI.

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