

Supplementary data

Synthesis and biological evaluation of ruthenium polypyridine complexes with 18 β -glycyrrhetic acid as antibacterial agents against *Staphylococcus aureus*

Qin Zhang,^a Yanshi Xiong,^a Jianxin Cheng,^a Yanhui Tan,^b Xiangwen Liao*^a and Jintao Wang*^a

^aJiangxi Provincial Key Laboratory of Drug Design and Evaluation, School of Pharmacy, Jiangxi Science & Technology Normal University, Nanchang, 330013, People's Republic of China. E-mail address: E-mail address: liao492008522@163.com or jintaochem@163.com

^bState Key Laboratory for Chemistry and Molecular Engineering of Medicinal Resources, School of Chemistry and Pharmaceutical Sciences, Guangxi Normal University, Guilin, 541004, People's Republic of China.

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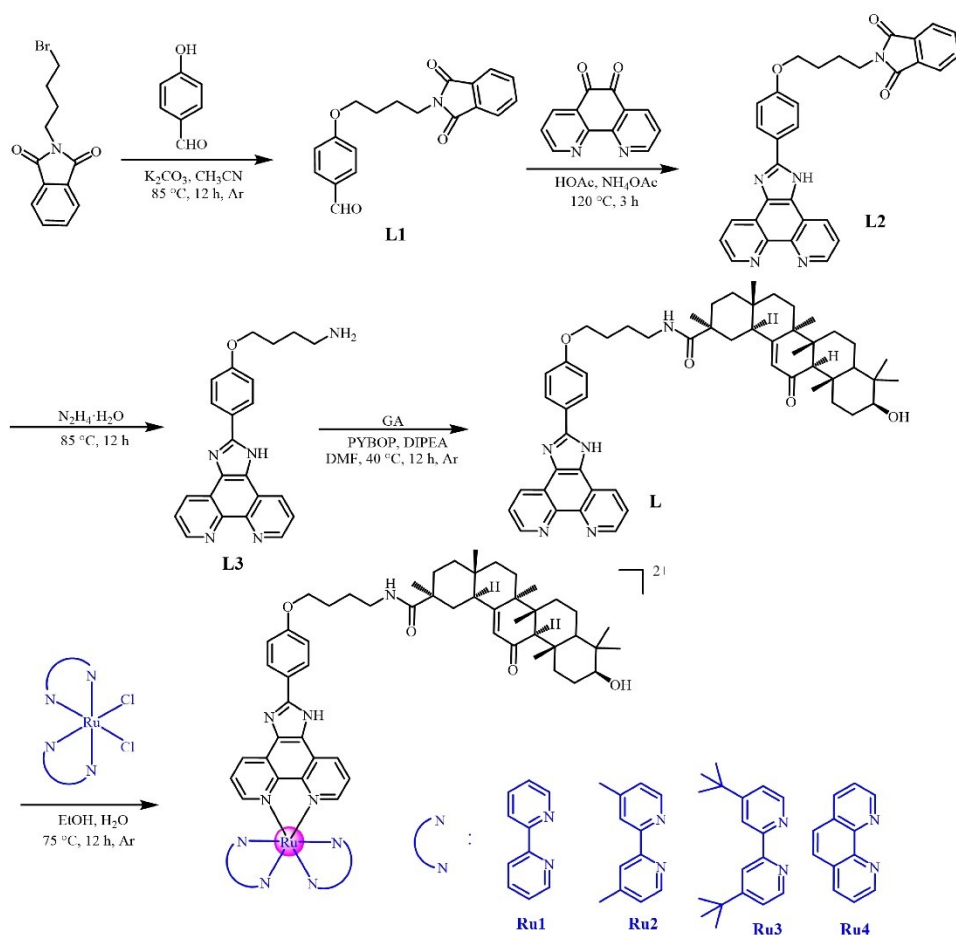


Fig. S1 The synthetic route of ligand and ruthenium complexes.

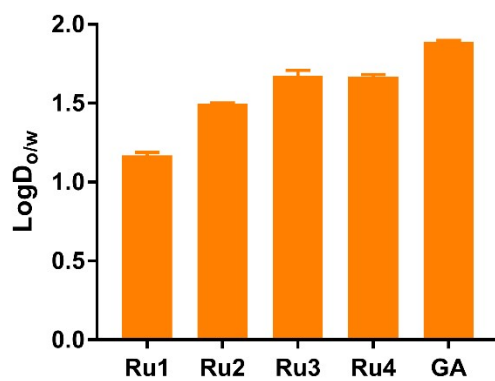


Fig. S2 Distribution coefficients of complexes and GA in an n-octanol/buffer mixture.

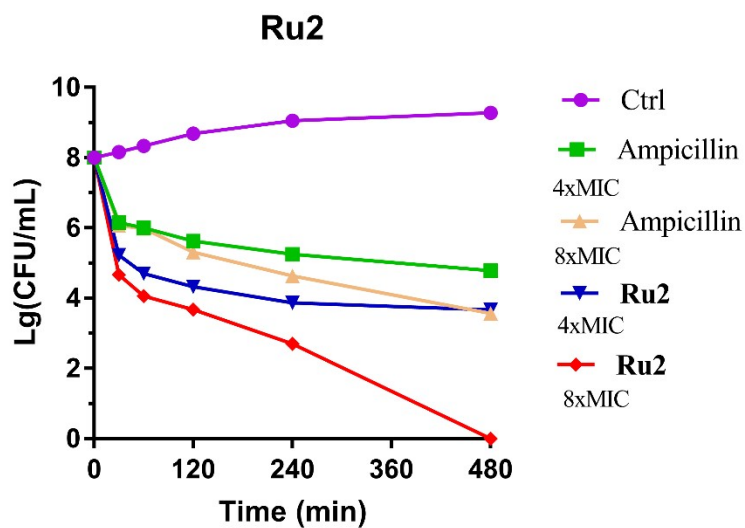


Fig. S3 Time-kill kinetics of **Ru2** against *S. aureus*.

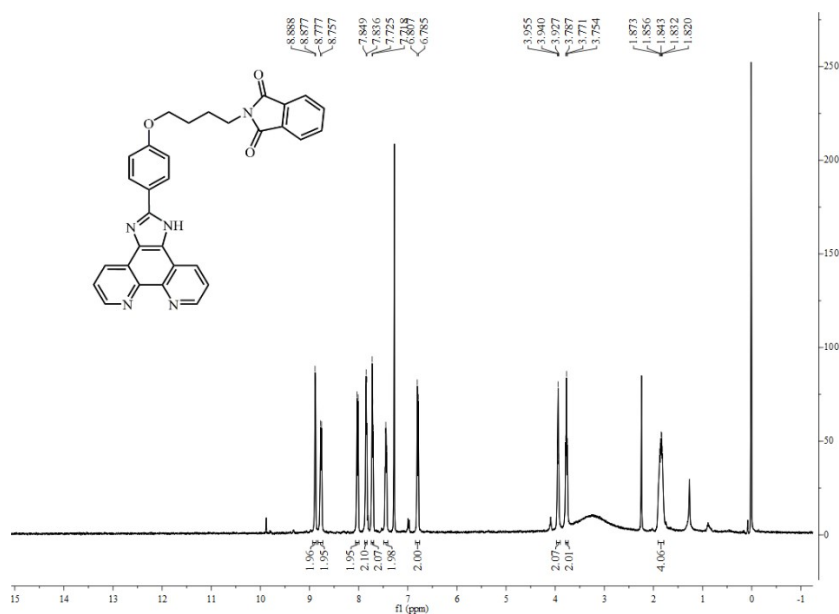


Fig. S4 ¹H NMR of L2.

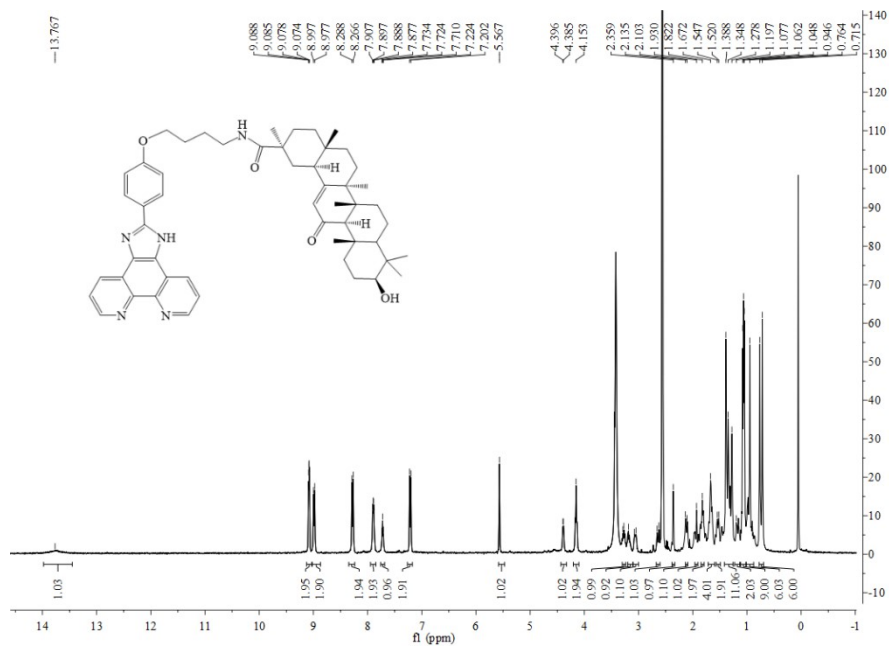


Fig. S7 ^1H NMR of L.

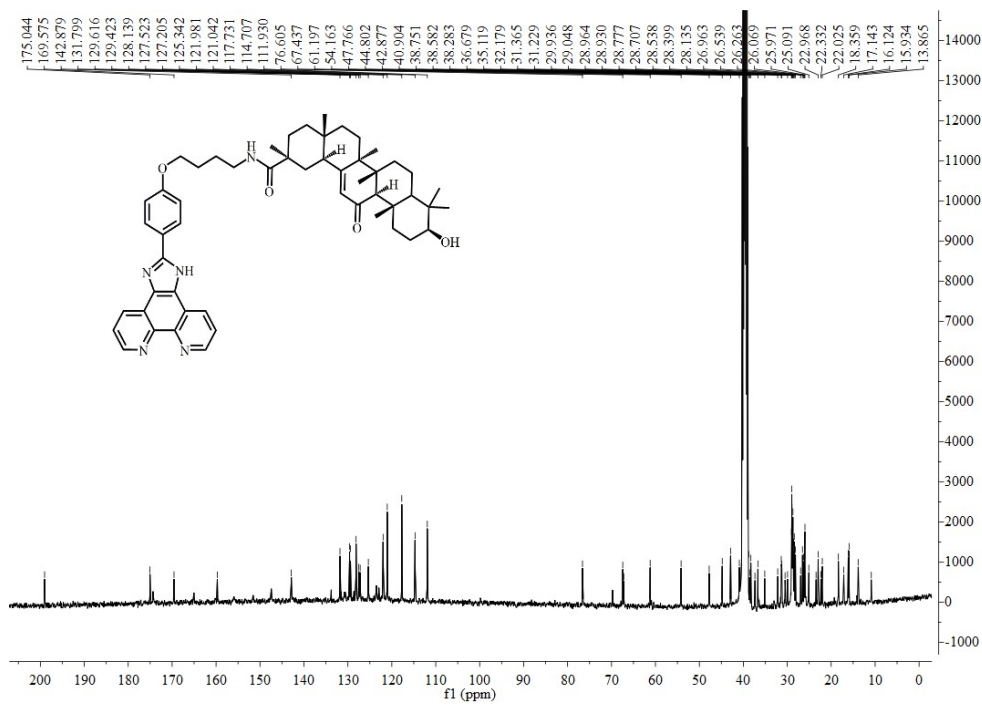


Fig. S8 ^{13}C NMR of L.

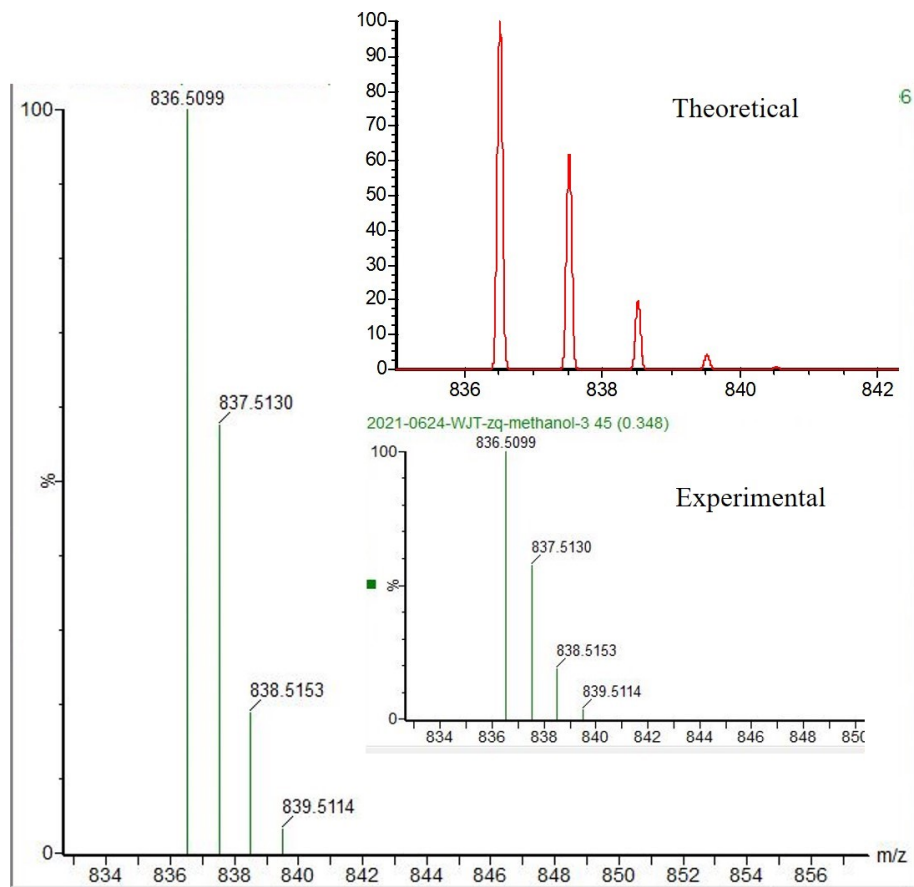


Fig. S9 HRMS of L.

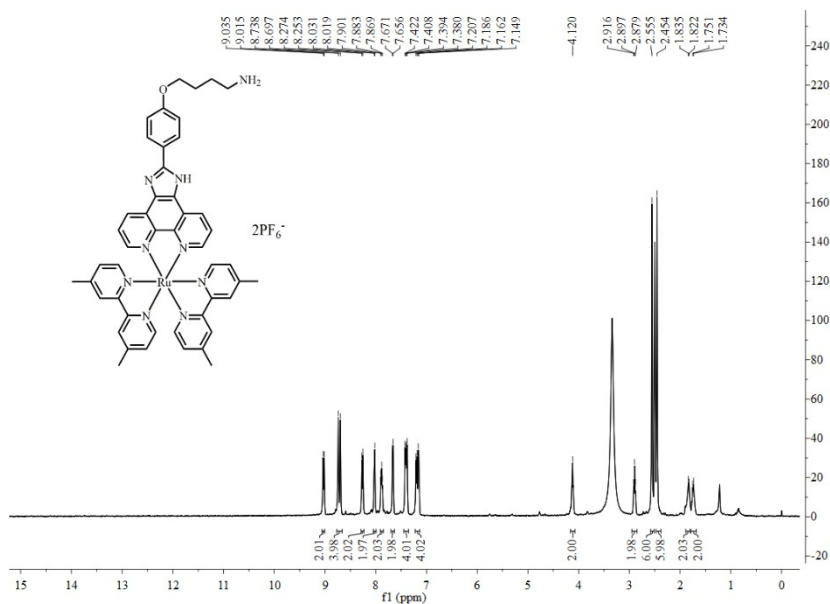


Fig. S10 ¹H NMR of Ru0.

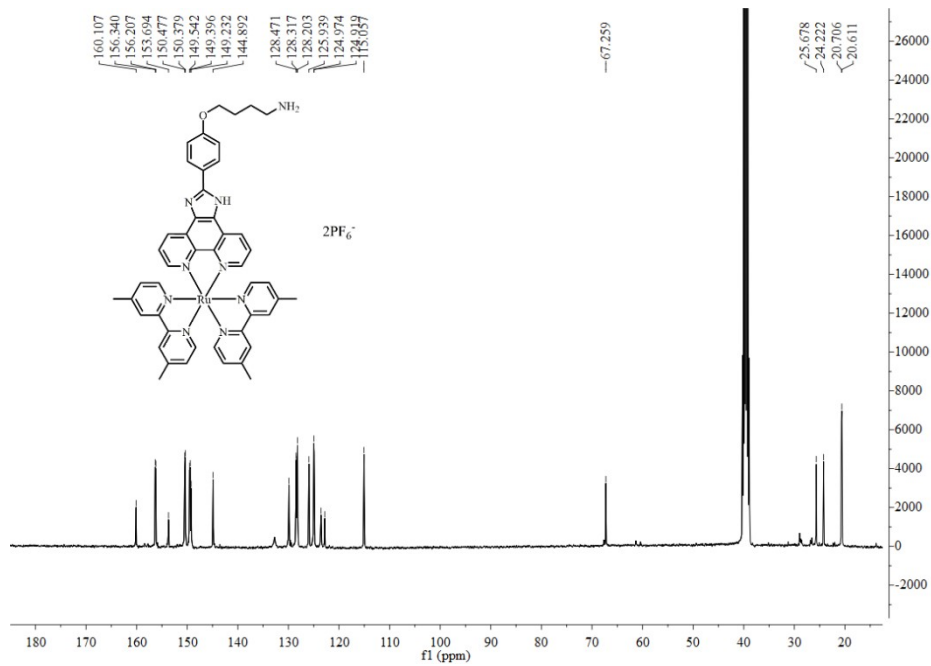


Fig. S11 ^{13}C NMR of Ru0.

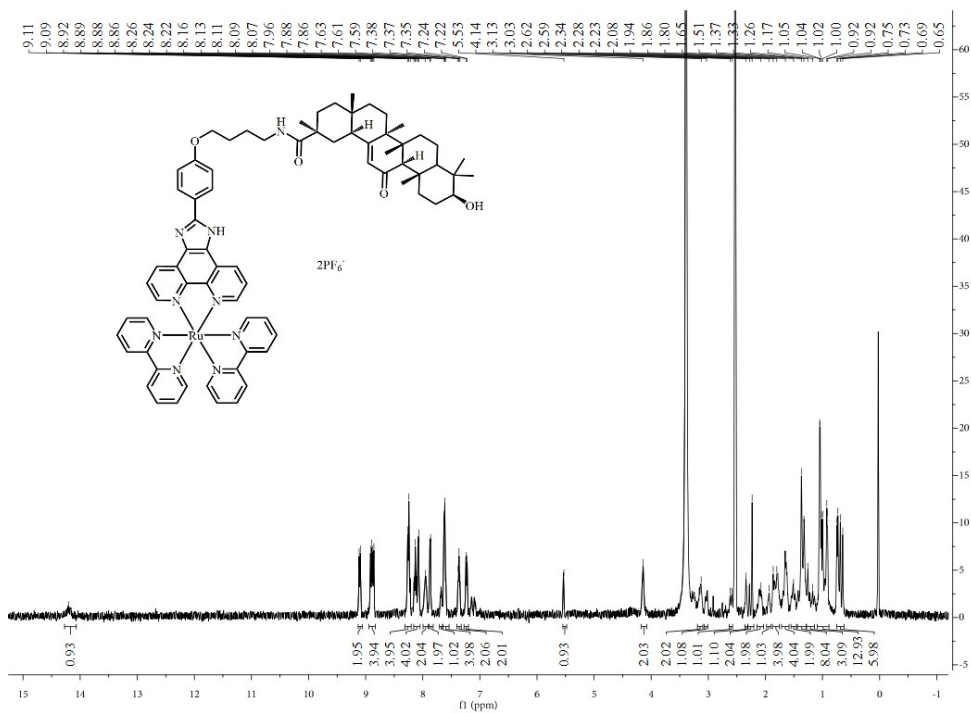


Fig. S12 ^1H NMR of Ru1.

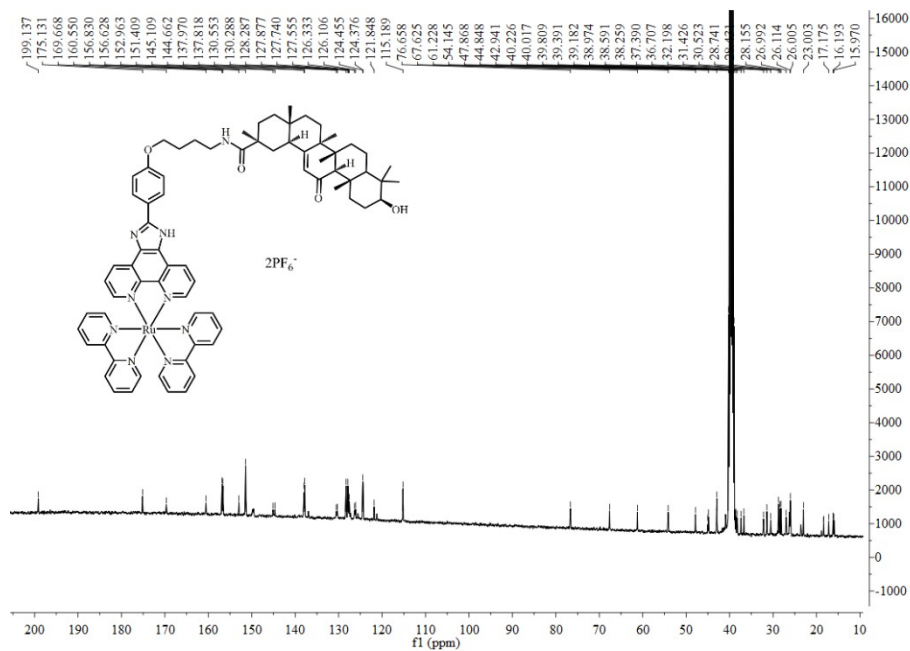


Fig. S13 ^{13}C NMR of Ru1.

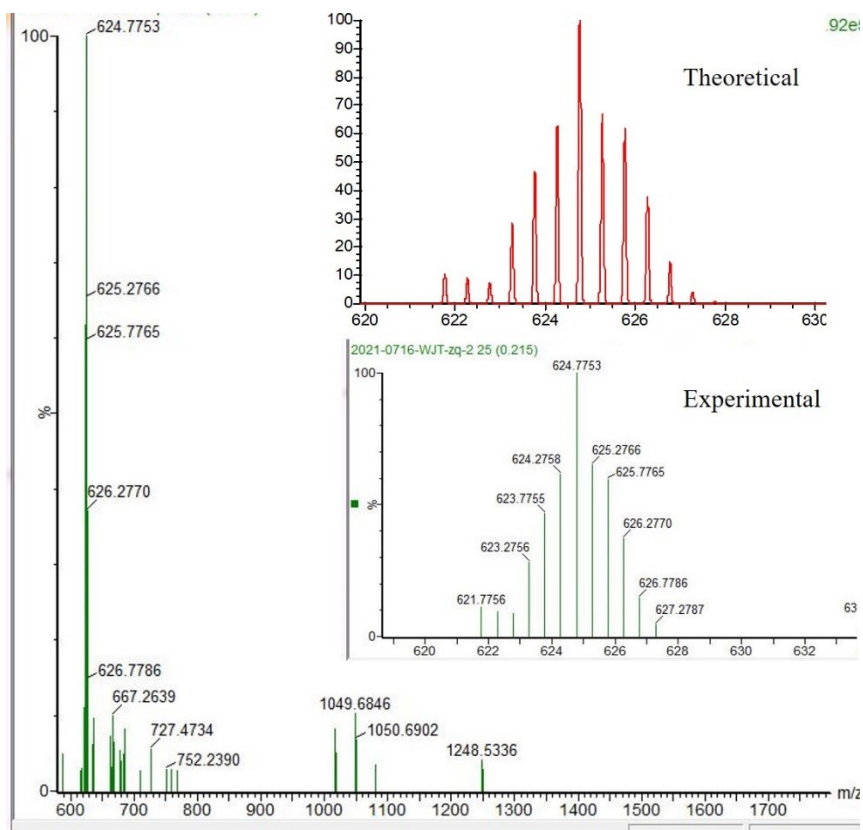


Fig. 14 HRMS of Ru1.

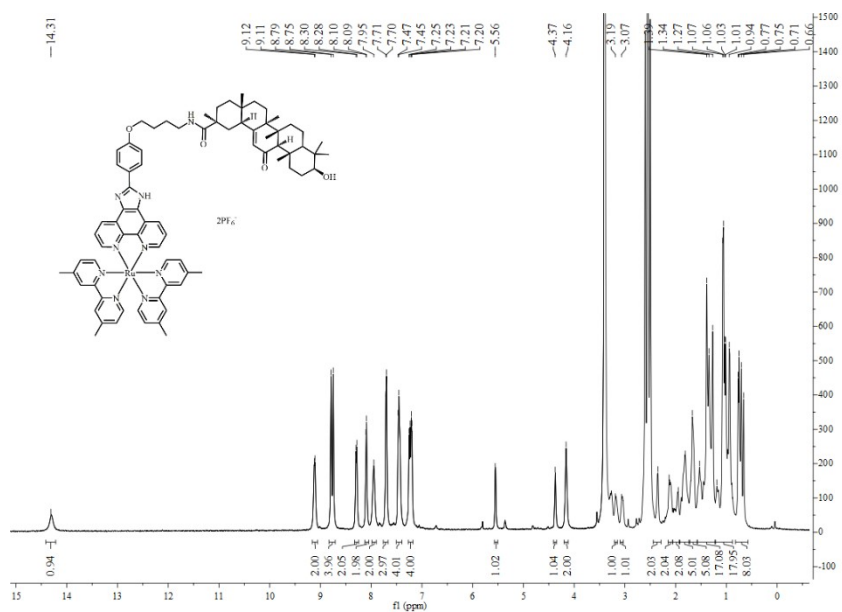


Fig. S15 ^1H NMR of Ru2.

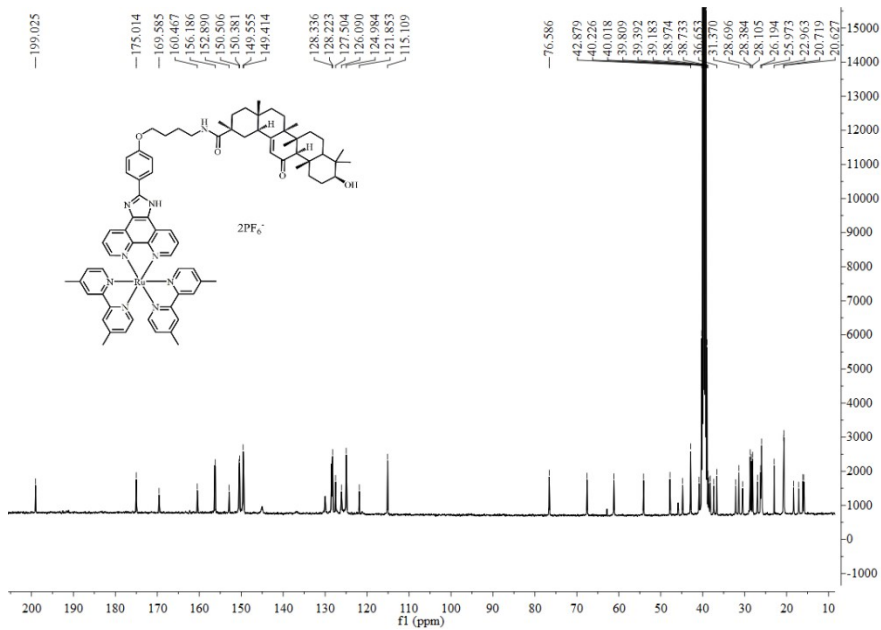


Fig. S16 ^{13}C NMR of Ru2.

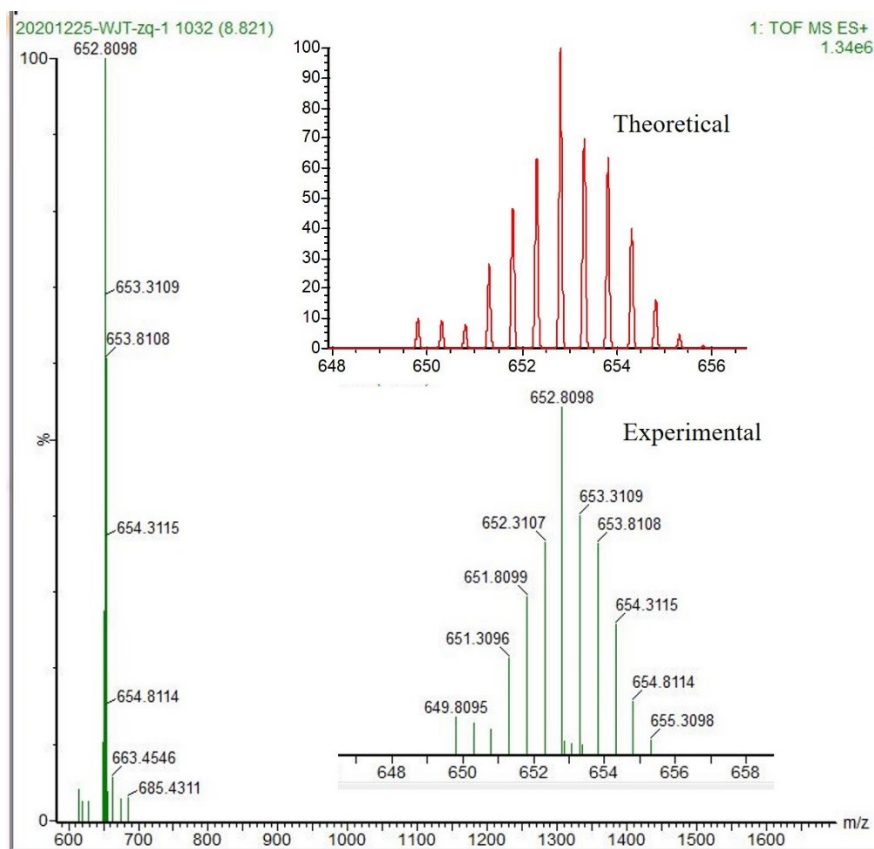


Fig. S17 HRMS of Ru2.

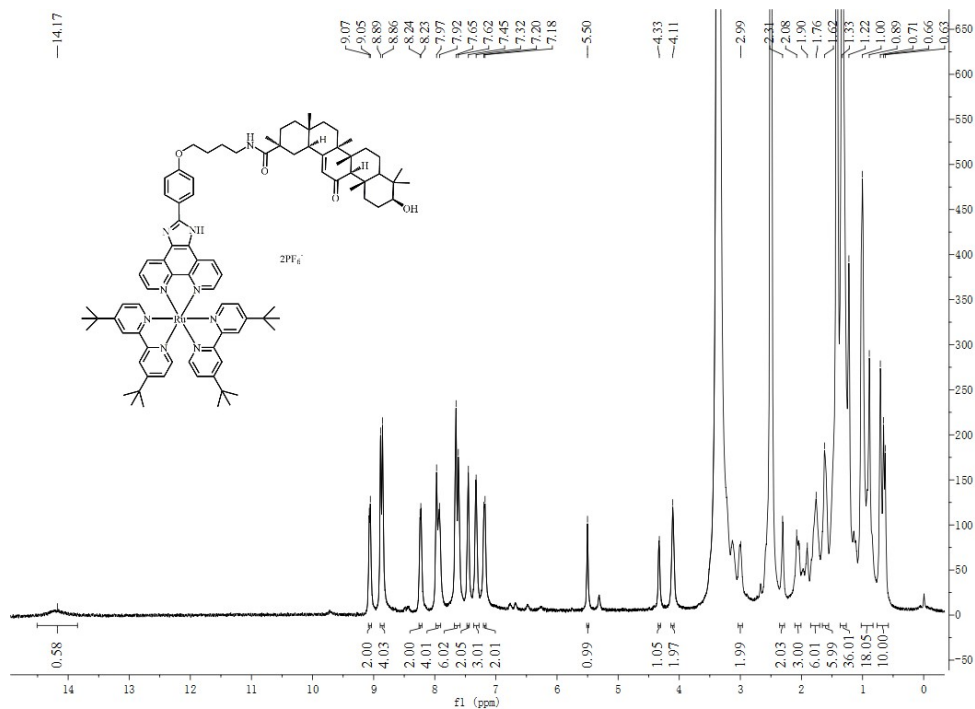


Fig. S18 ¹H NMR of Ru3.

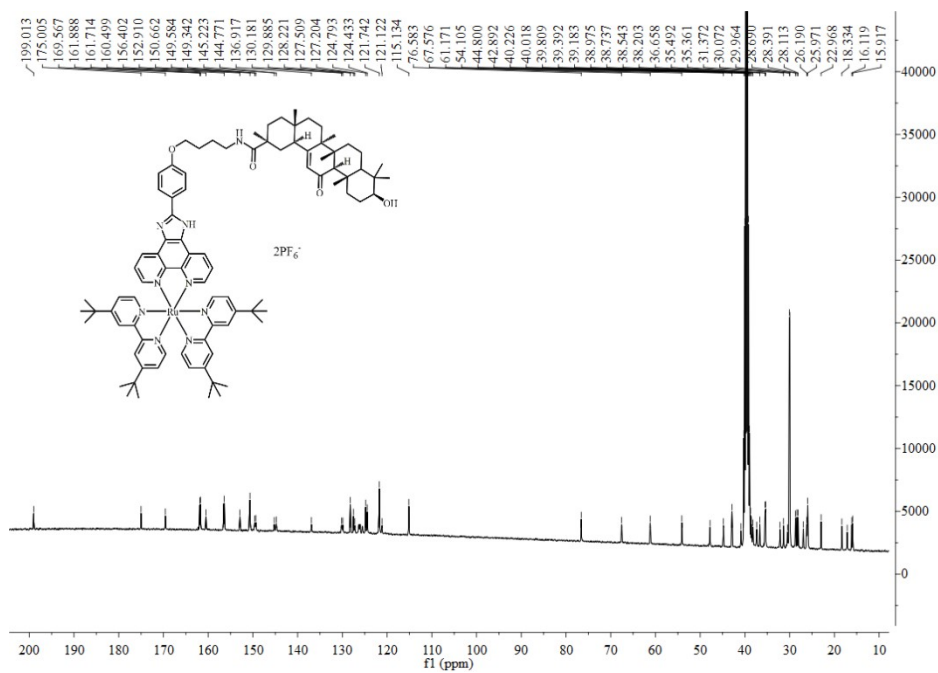


Fig. S19 ¹³C NMR of Ru3.

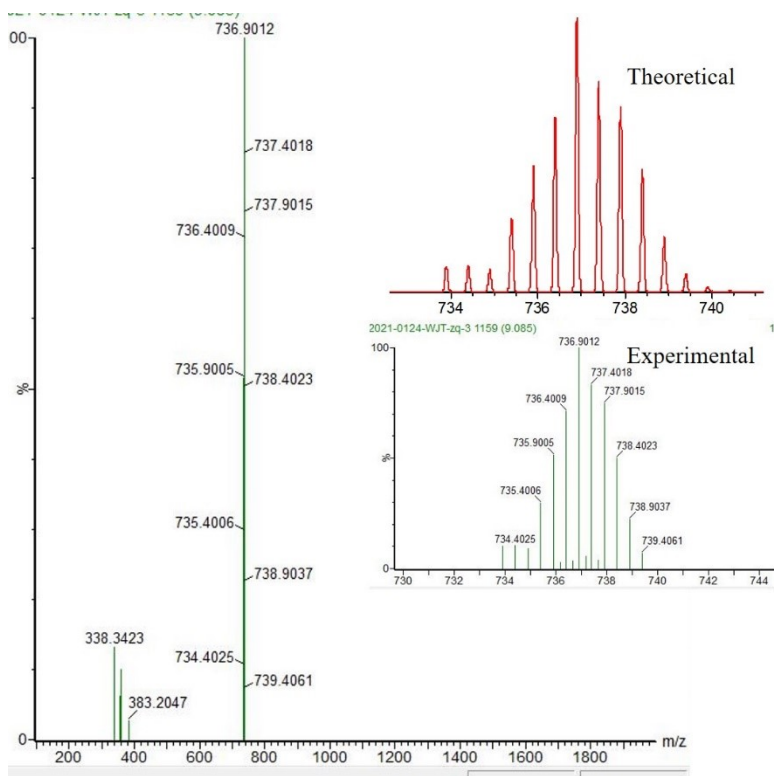


Fig. S20 HRMS of Ru3.

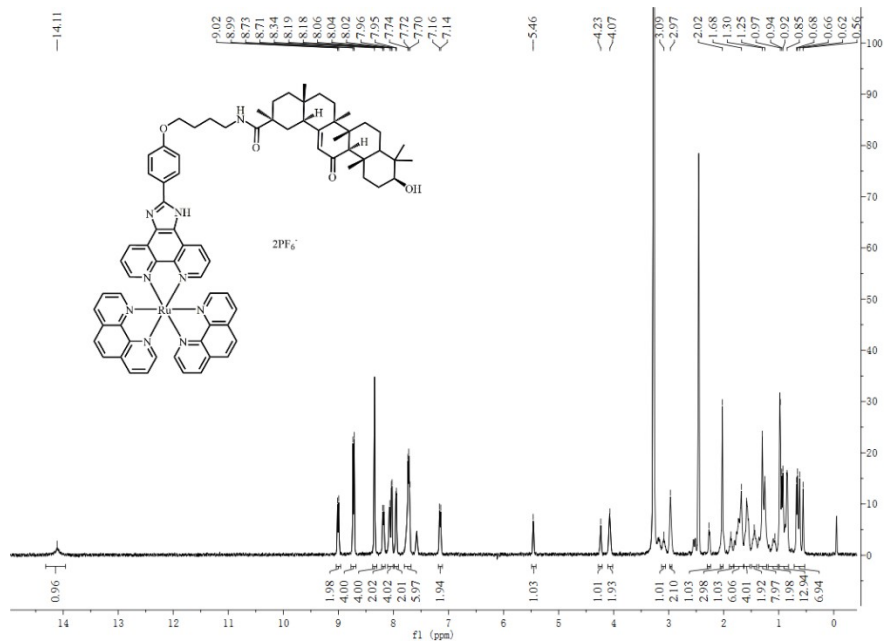


Fig. S21 $^1\text{H NMR}$ of Ru4.

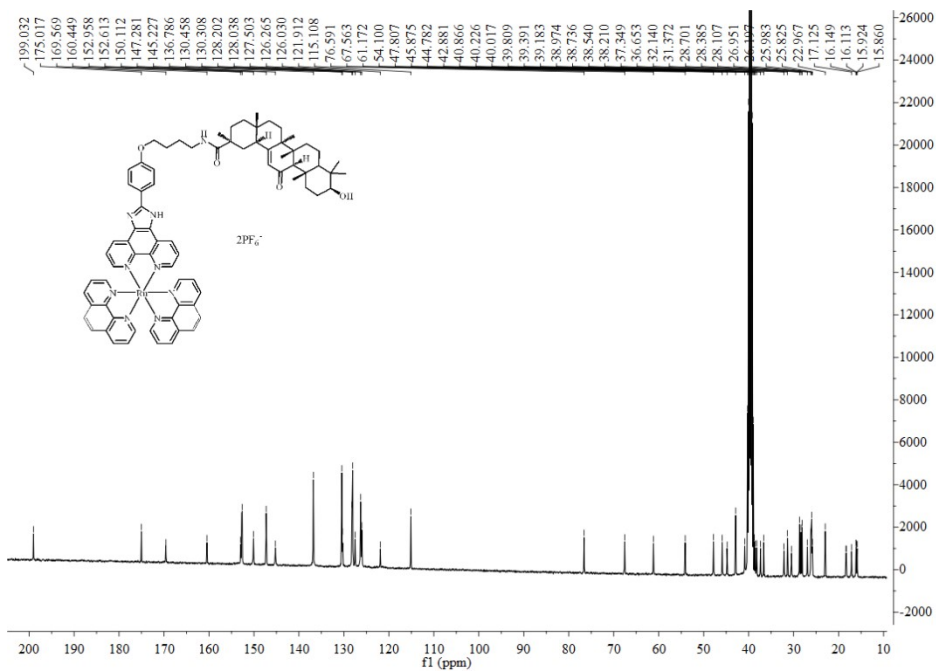


Fig. S22 $^{13}\text{C NMR}$ of Ru4.

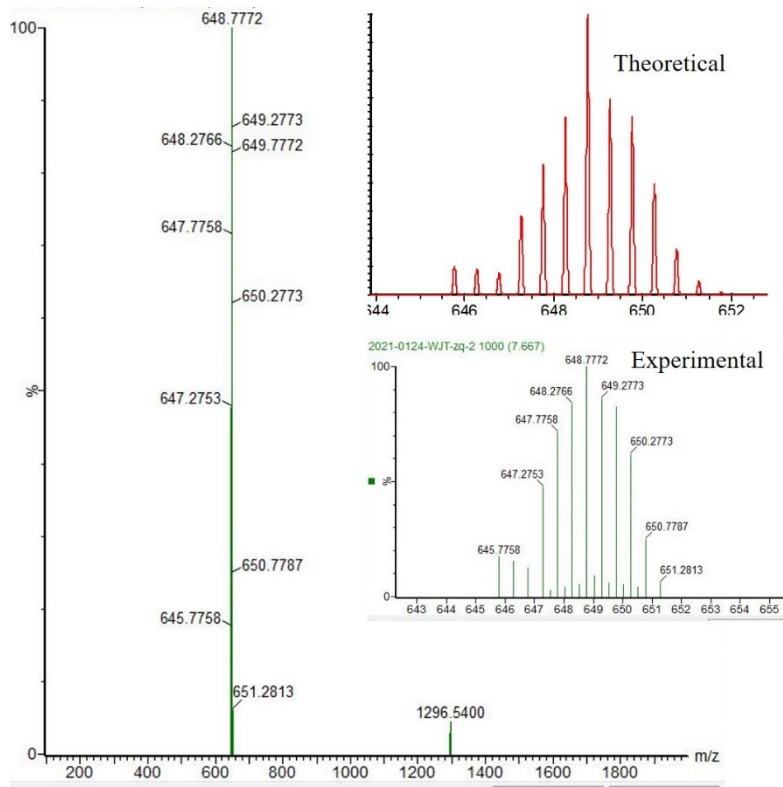


Fig. S23 HRMS of Ru4.