

Electronic Supplementary Information

For

**Improving solubility and avoiding hygroscopicity of tetrahydroberberine by forming
hydrochloride salt by introducing solvents: [HTHB]Cl, [HTHB]Cl·CH₃OH and
[HTHB]Cl·CH₃COOH**

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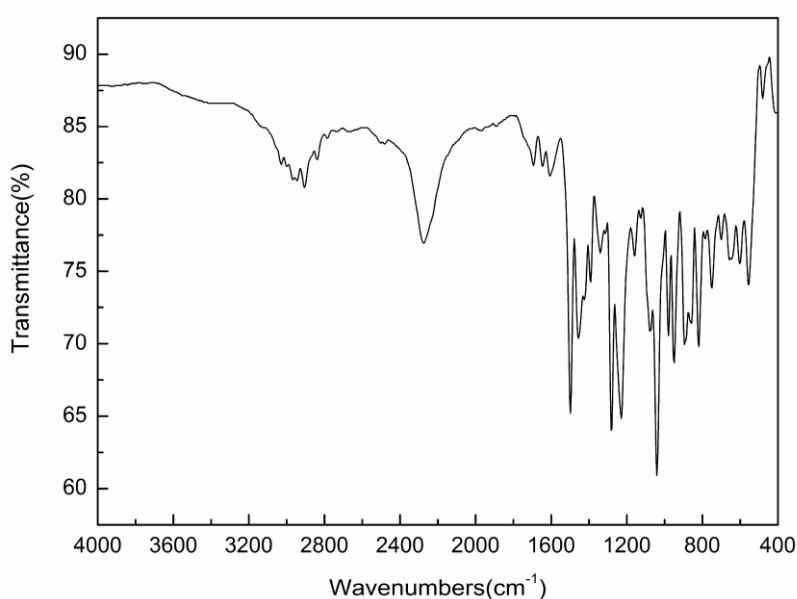


Fig. S1. IR spectra of compound 1.

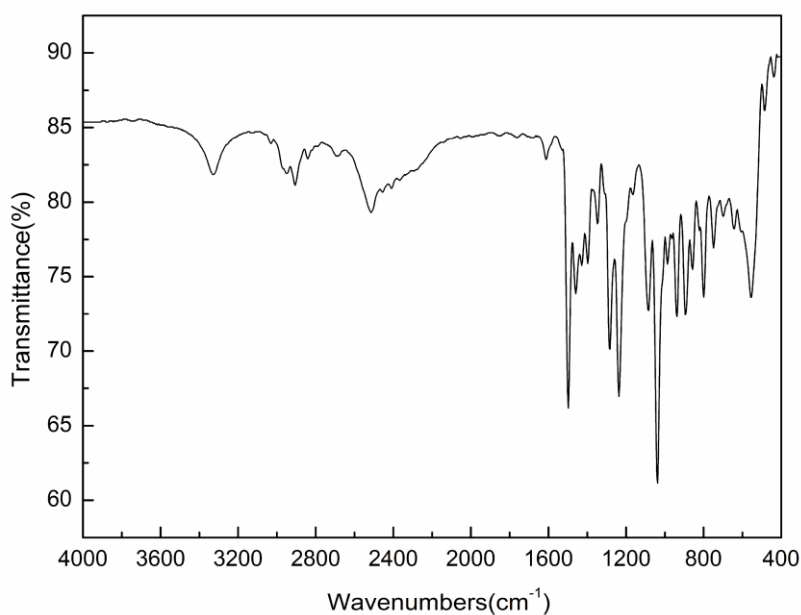


Fig. S2. IR spectra of compound 2.

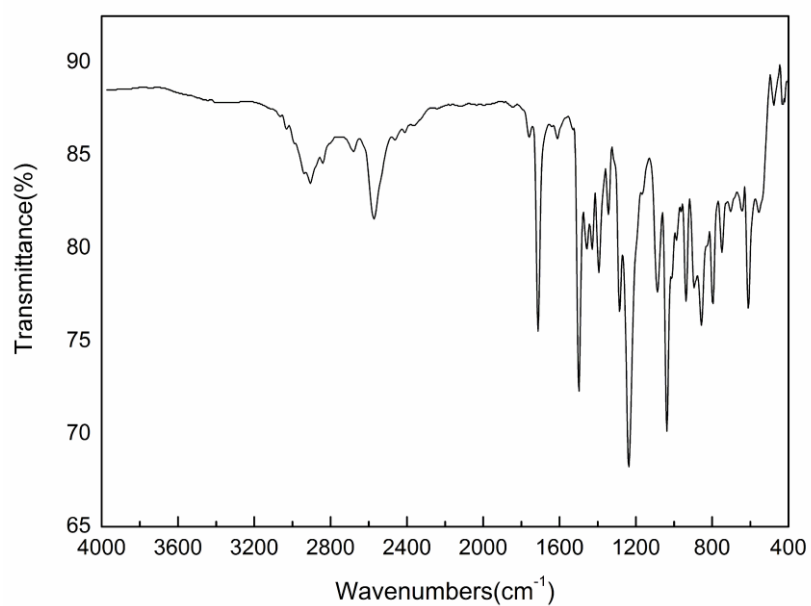


Fig. S3. IR spectra of compound **3**.

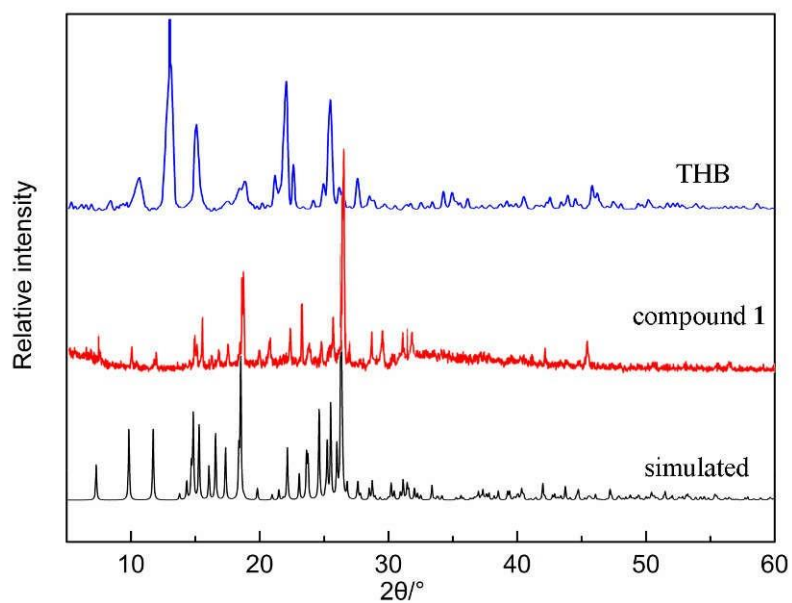


Fig. S4. Comparison of XRPD patterns: experimental XRPD patterns of THB, experimental XRPD patterns of **1** and the simulated patterns of **1**.

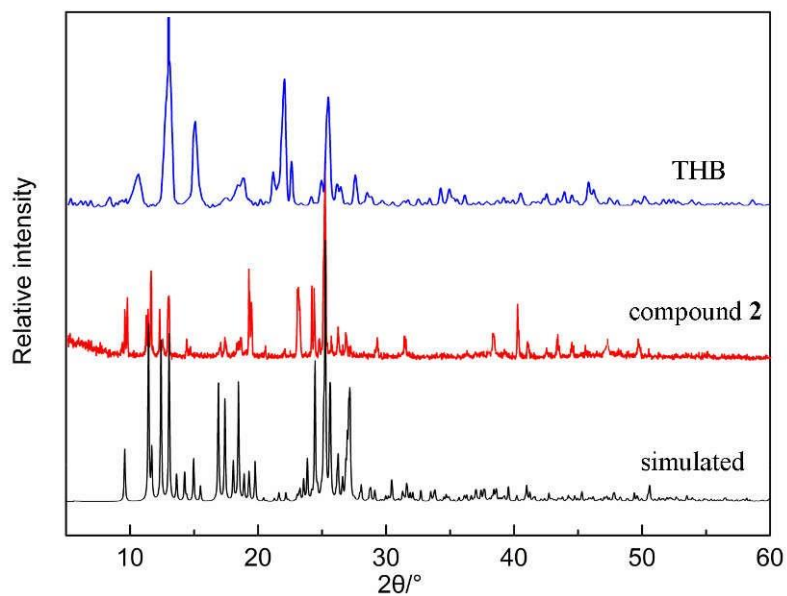


Fig. S5. Comparison of XRPD patterns: experimental XRPD patterns of THB, experimental XRPD patterns of **2** and the simulated patterns of **2**.

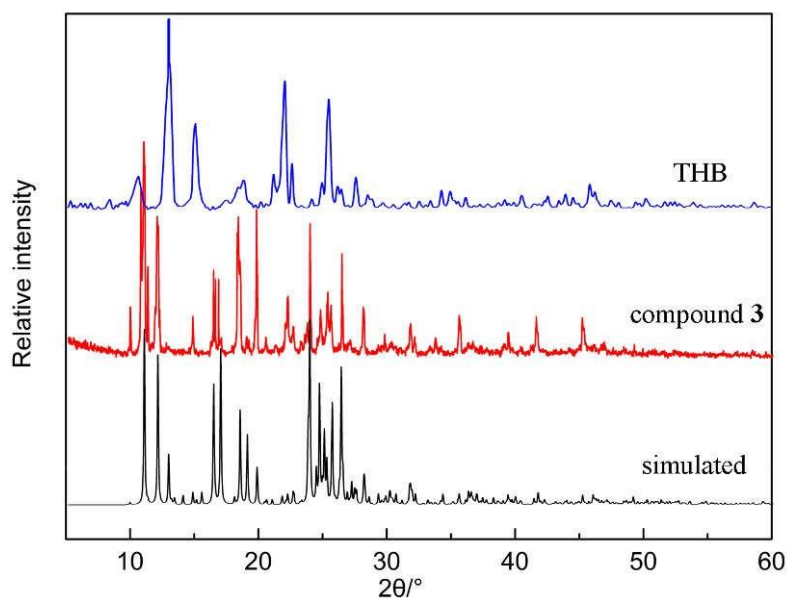


Fig. S6. Comparison of XRPD patterns: experimental XRPD patterns of THB, experimental XRPD patterns of **3** and the simulated patterns of **3**.

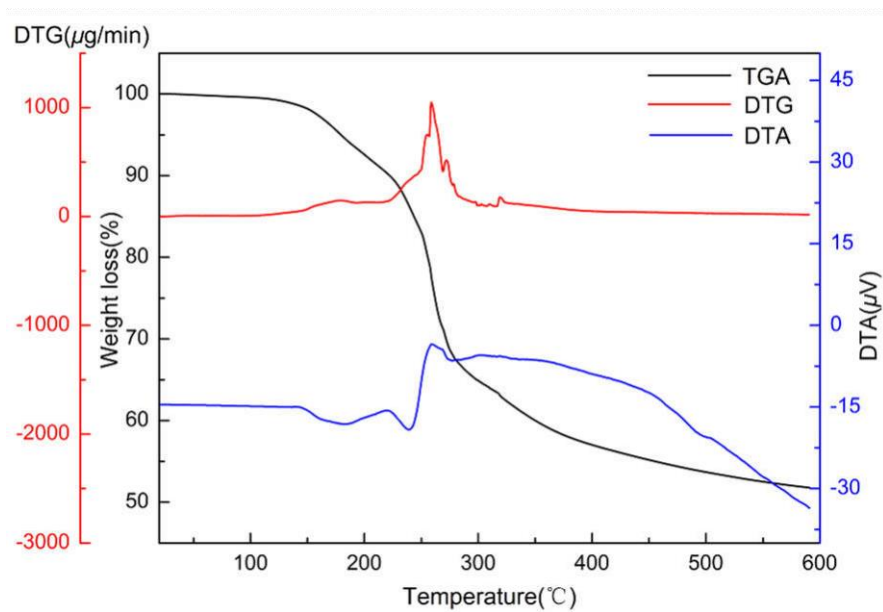


Fig. S7. TGA/DTG and DTA curves of compound **1**.

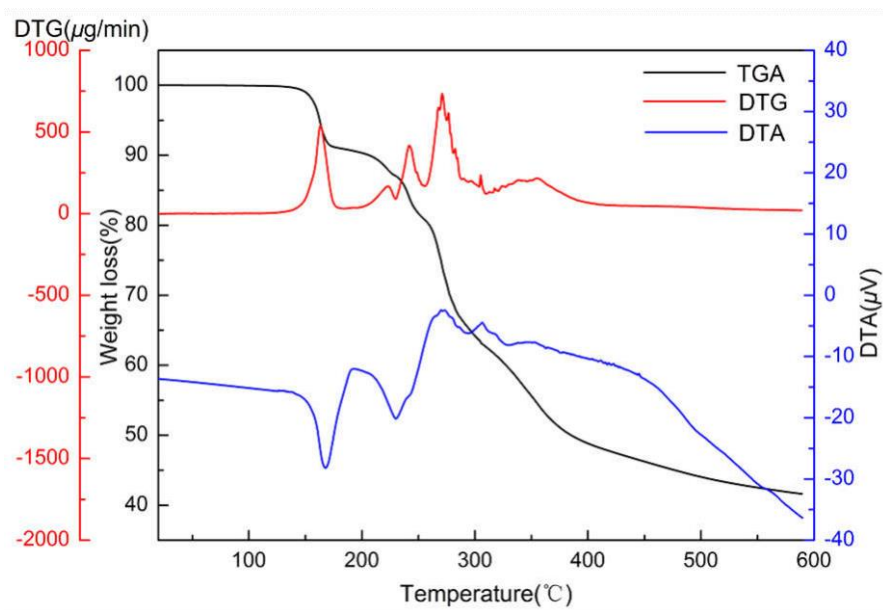


Fig. S8. TGA/DTG and DTA curves of compound **2**.

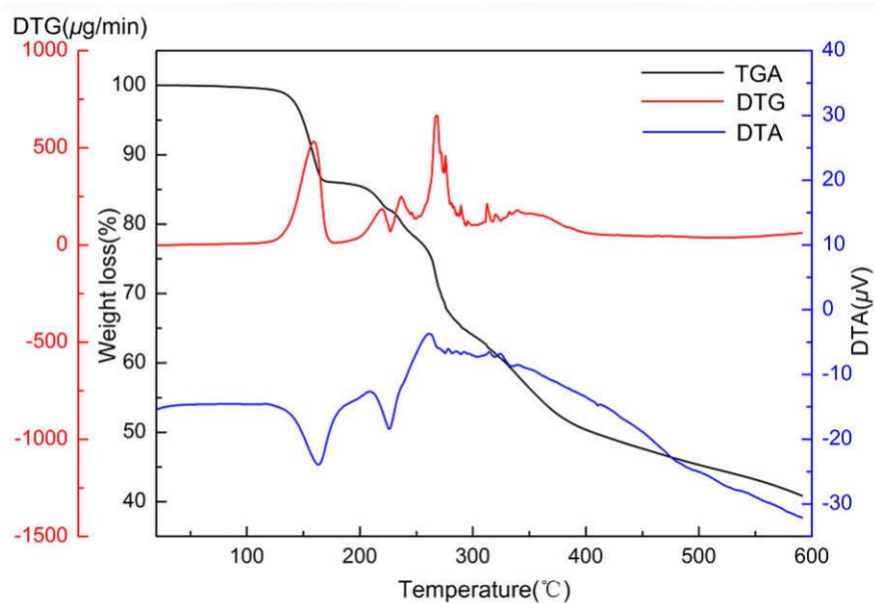


Fig. S9. TGA/DTG and DTA curves of compound **3**.

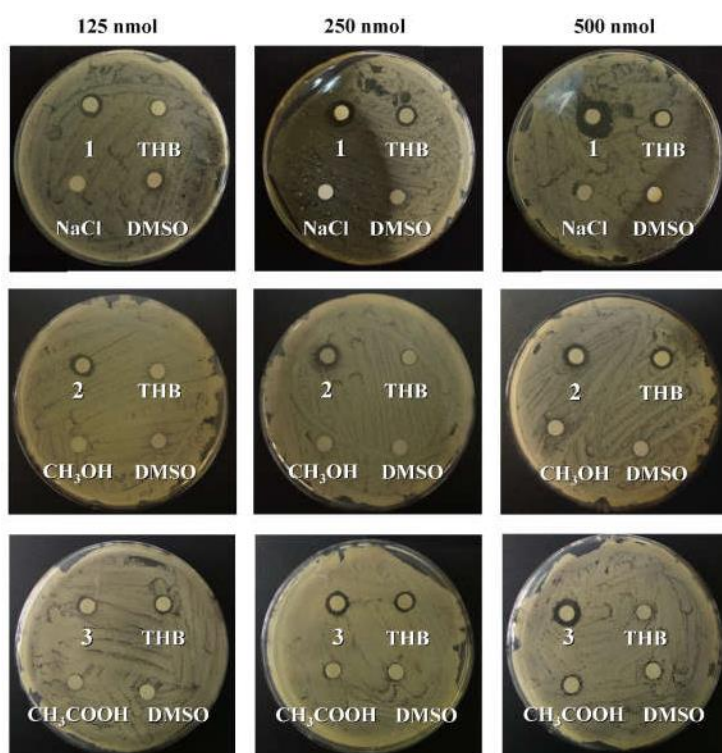


Fig. S10. Results of inhibitory zones of compounds **1-3** on *S. aureus*.

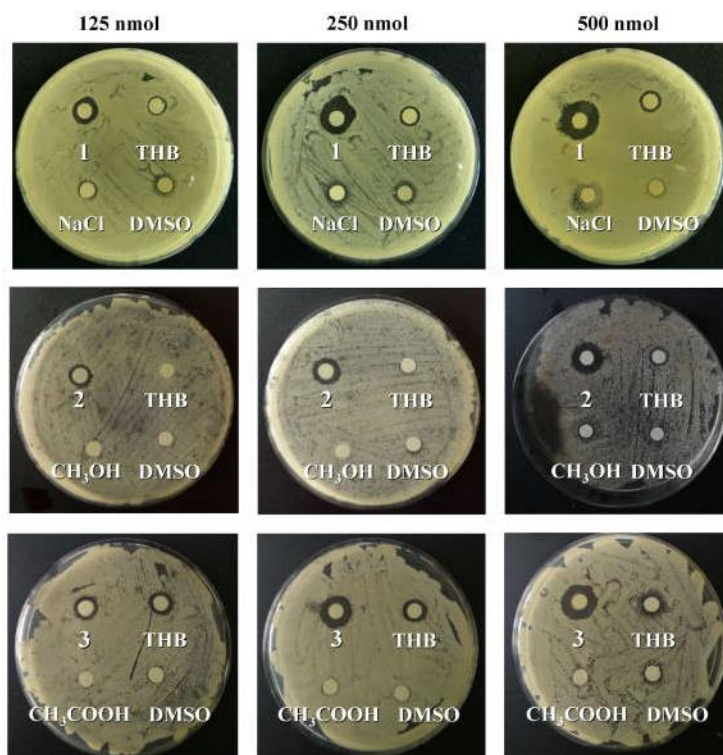


Fig. S11. Results of inhibitory zones of compounds **1-3** on *E. coli*.