Supplementary information

A highly selective fluorescent probe for real-time imaging of bacterial NAT2 and high-thought screening natural inhibitors to therapy tuberculosis

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Figure S5. $^1$H NMR spectrum of ARHB in MeOD.

Figure S6. $^{13}$C NMR spectrum of ARHB in MeOD.
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Figure S8. Representative HPLC chromatograms of ARHB (50 μM) incubation with NAT2 at 37 °C, UV detector was set at 580 nm.

Figure S9. The mass spectrum of NA-ARHB as a reaction product of ARHB by NAT2.

Figure S10. The linear relationship between fluorescence intensity and time (0 - 20 min). $\lambda_{ex} = 530$ nm.
Figure S11. Fluorescence background of different bacterial strains. (A, D, G, J) Fluorescence fields; (B, E, H, K) Bright fields; (C, F, I, L) the merge of fluorescence and bright fields.
Figure S12. The structure of 16 natural compounds.