Electronic Supplementary Information

for

Selective and sensitive colorimetric detection of stringent alarmone ppGpp with Fenton-like reagent

Lin Ling Zheng[a], and Cheng Zhi Huang[a,b,*]

[a]*Key Laboratory of Luminescent and Real-Time Analytical Chemistry (Southwest University), Ministry of Education, College of Chemistry and Chemical Engineering, Southwest University, Chongqing 400715, China*

[b]*College of Pharmaceutical Sciences, Southwest University, Chongqing 400715, China*

*Corresponding author. Tel.: +86 23 68254659; fax: +86 23 68367257.

E-mail address: chengzhi@swu.edu.cn (C.Z. Huang).

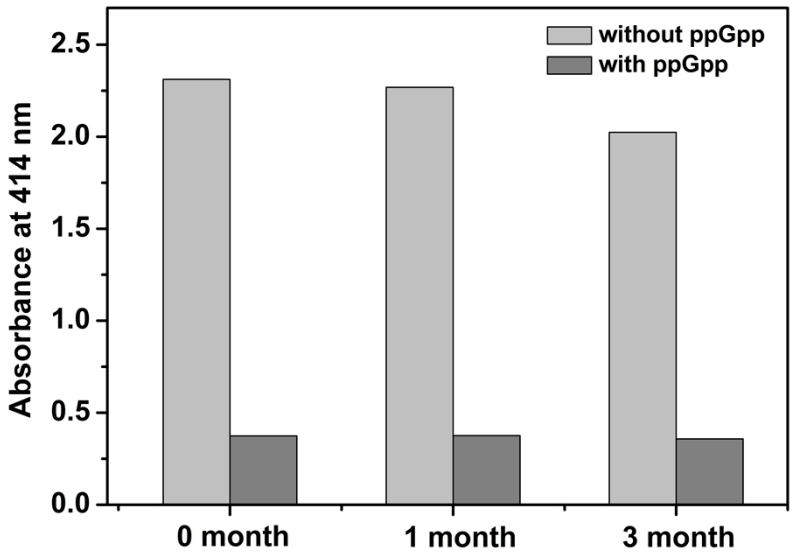

Fig. S1 Stability of the reagents. The reagents were stored in dark at 4°C. Concentrations: Fe^{3+}, 5 μM; H_2O_2, 200 μM; ppGpp, 8 μM; ABTS, 250 μM.

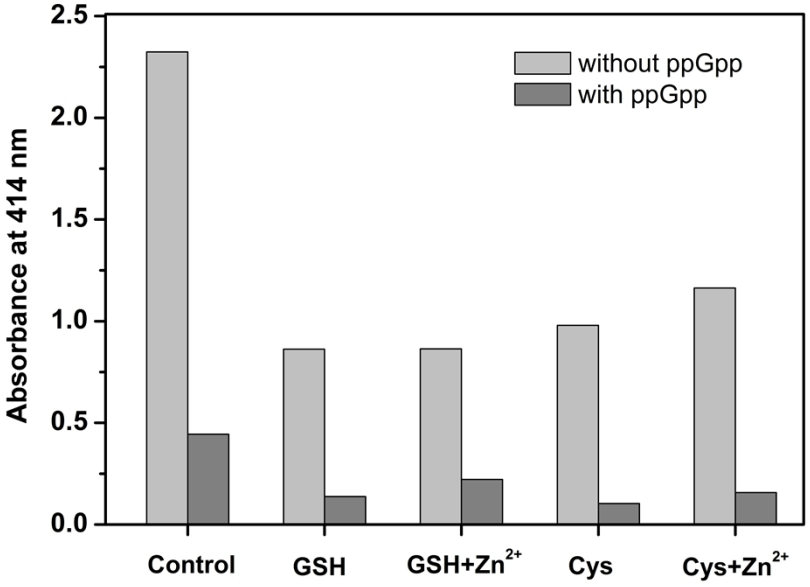

Fig. S2 Absorption changes after adding Zn^{2+} to the samples containing GSH and Cys. Concentrations of GSH, Cys and Zn^{2+} were 80 μM.

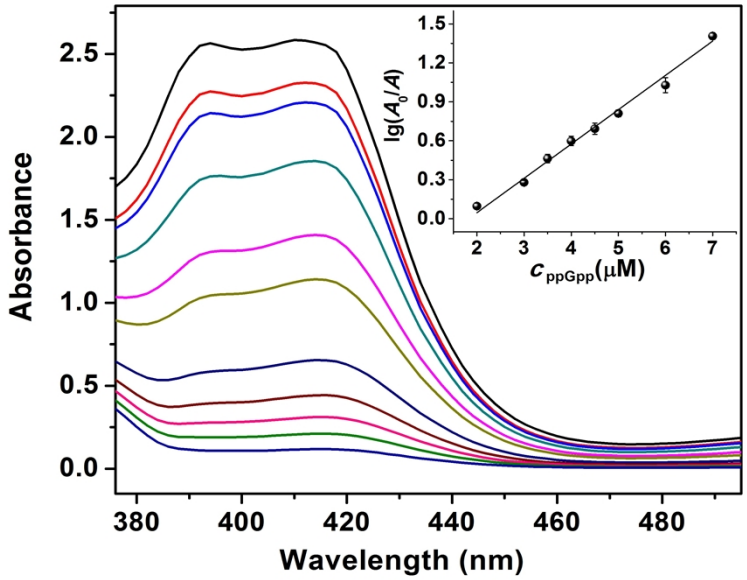

Fig. S3 ppGpp induced absorption spectra changes of Fe^{2+}, H_2O_2, and ABTS. Inset: the linear relationship between lg(A_0/A) and the concentration of ppGpp. Concentrations: Fe^{2+}, 5 μM; H_2O_2, 200 μM; ABTS, 250 μM.