Supporting Information

A novel quinoline-based fluorescent probe for Real-time monitoring of Cys in Glioma





Fig.S3. The ¹H NMR of ZS-C1(600 MHz, in DMSO-*d6*).







Fig.S5. HR Mass spectrum of **ZS-C1.**HRMS (ESI-TOF) Calcd for C₂₆H₂₂NO₂⁺ [M+H]⁺ :381.1666, found: 381.1666.



Fig.S6. Fluorescence spectra of ZS-C1 reacted with Cys in PBS (pH = 7.4). (a) λ_{ex} =380 nm; (b) λ_{ex} =531 nm



Fig.S7. The photostability of ZS-C1 and ZS-C1-OH within 90min



Fig.S8. Fluorescence intensity at 531 nm of **ZS-C1** (10 μ M) with Cys (300 μ M) in PBS buffer (10 mM, 1% DMSO, 1mM CTAB) with various pH conditions at 37 °C for 2h. The error bars were ±SD (n=3).



Spectrum from 20220309_2S_10_A.wiff (sample 1) - 202..._A, Experiment 1, +TOF MS (50 - 1500) from 4.105 min



Fig.S9. HR Mass spectrum of the composition of the reaction solution of **ZS-C1** with Cys. HRMS (ESI-TOF) Calcd for $C_{23}H_{20}NO^+$ [M+H]⁺:327.16, found: 327.1588.



Fig.S10. Cell viability of bEnd.3 and U87 in the presence of various concentrations of **ZS-C1.**