Electronic Supplementary Information for

Hypoxia imaging in living cells, tissues and zebrafish with a nitroreductase-specific fluorescent probe

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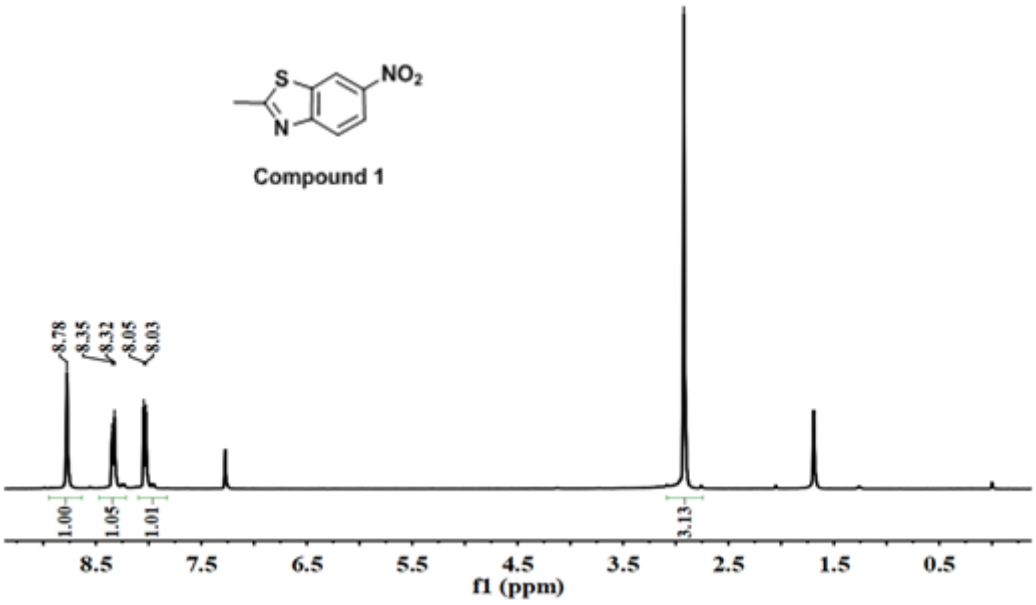
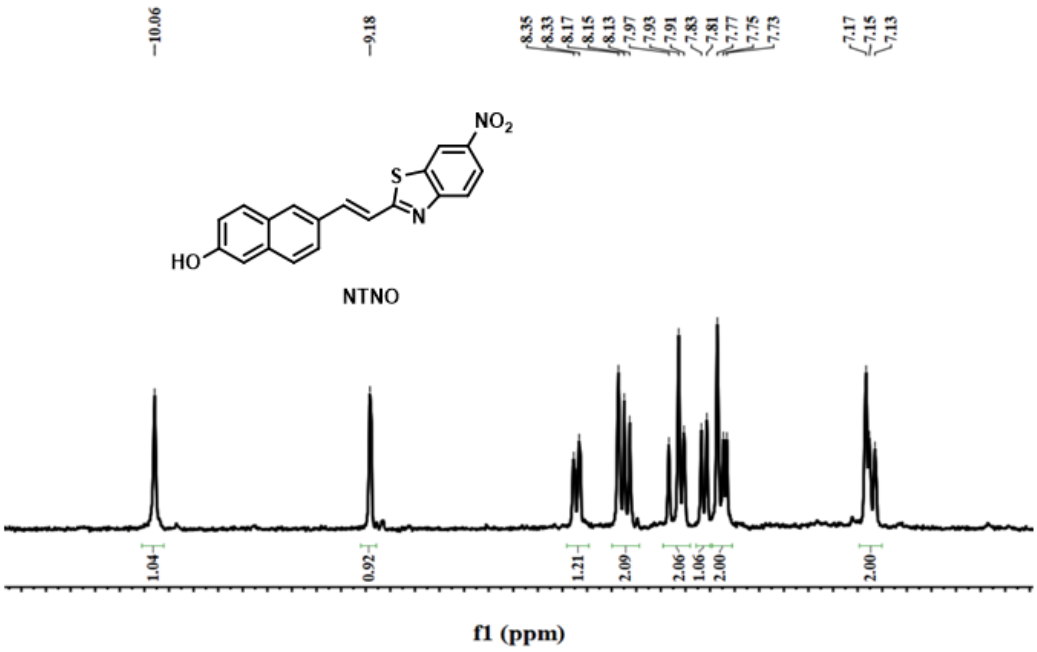
Contents:


S
N
NO2
Compound 1
8.78
8.35
8.32
8.05
8.03
1.00
1.05
1.01
3.13
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5
f1 (ppm)


10.06
9.18
8.35
8.33
8.17
8.15
8.13
7.97
7.93
7.91
7.83
7.81
7.77
7.75
7.73
7.17
7.15
7.13
NO2
S
N
HO
NTNO
1.04
0.92
1.21
2.09
2.06
1.06
2.00
2.00
f1 (ppm)

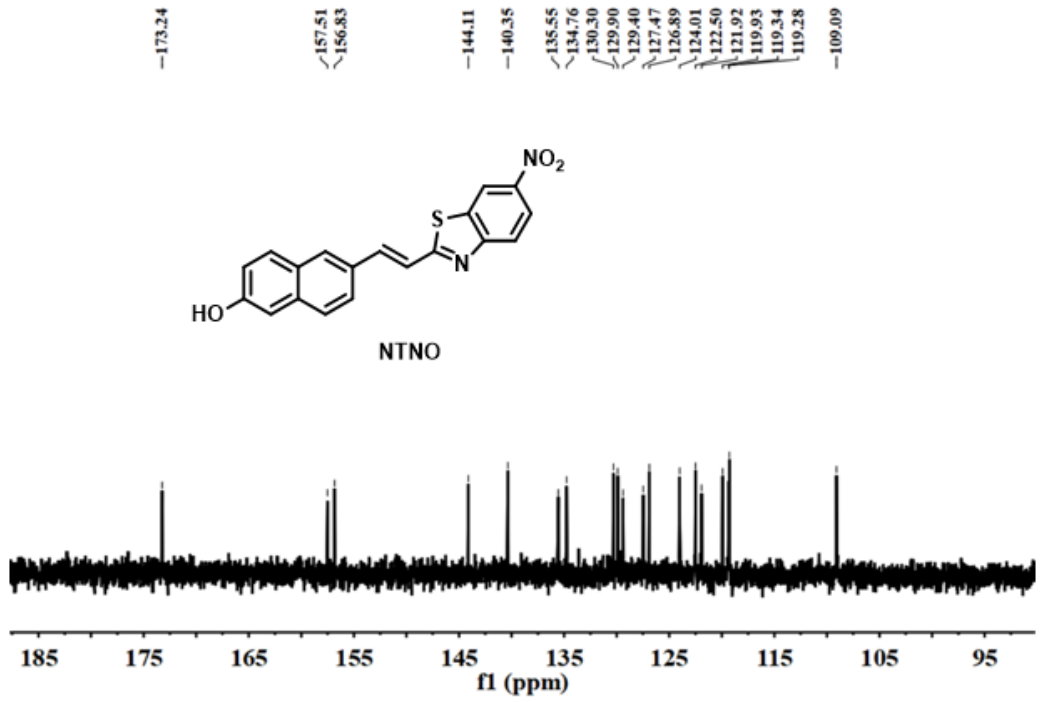
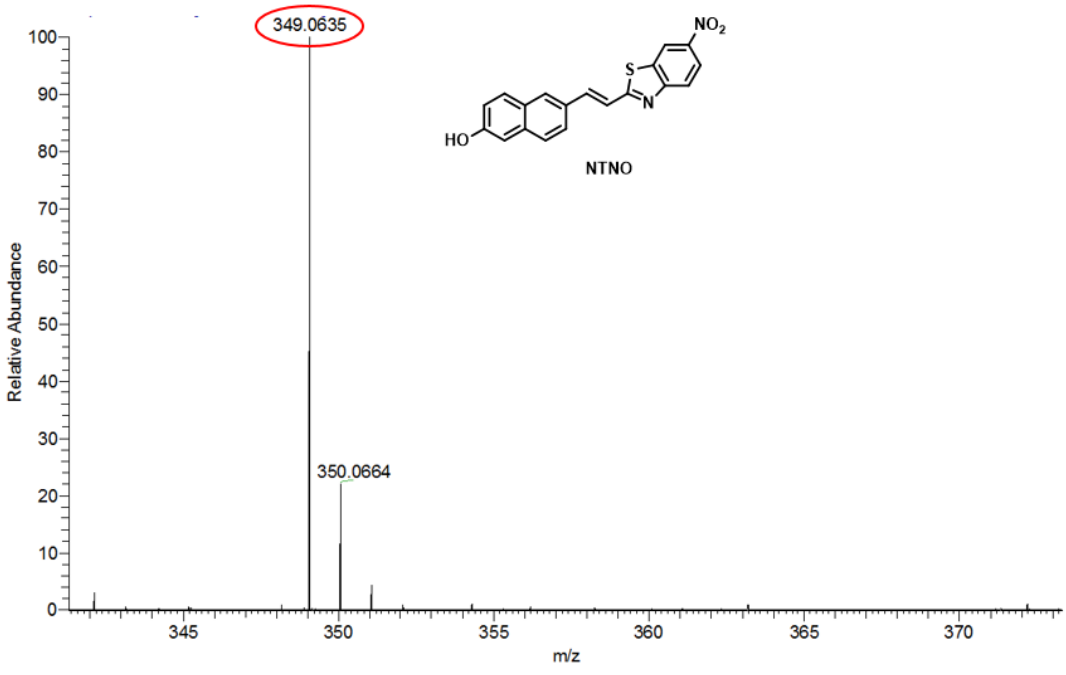


Fig. S1 ^{1}H NMR,^{13}C NMR spectra of compound **1** and **NTNO**.



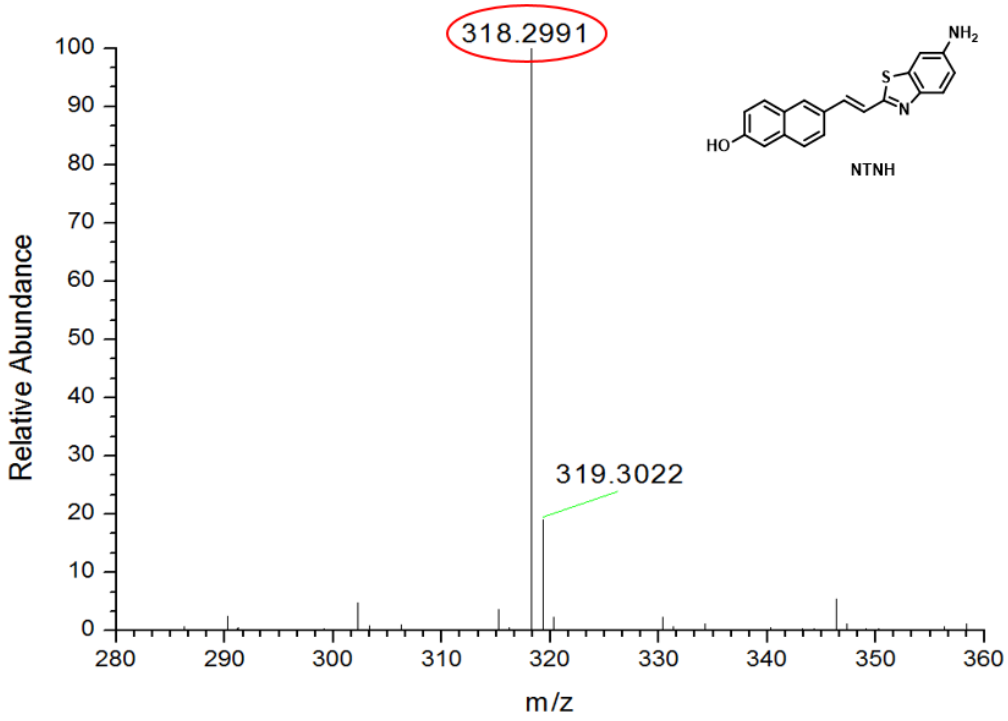


Fig. S2 HR-MS analysis of **[NTNO+H]**$^+$ and the reaction product (**[NTNH+H]**$^+$) of 5 μM **NTNO** with 10 μg/mL NTR in the presence of 500 μM NADH.

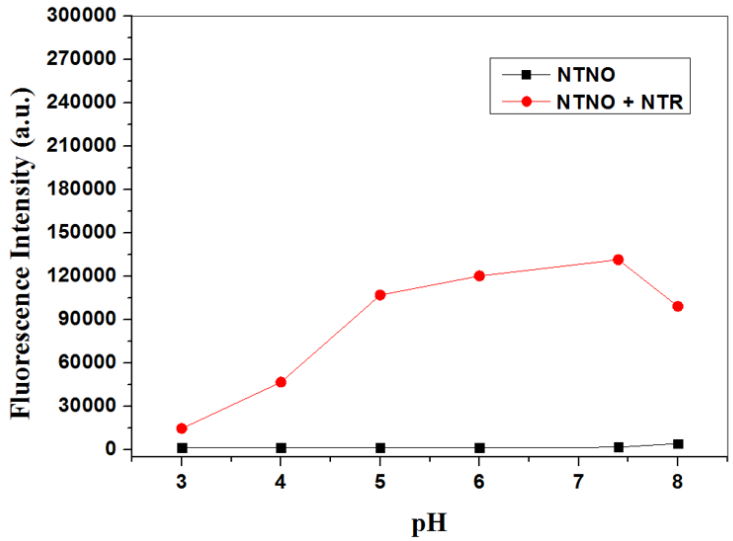


Fig. S3 The pH effect on the fluorescence emission changes of **NTNO** (5 μM) in the absence and presence of NTR (5.0 μg/mL) containing NADH (500 μM) in different pH PBS buffer, respectively.

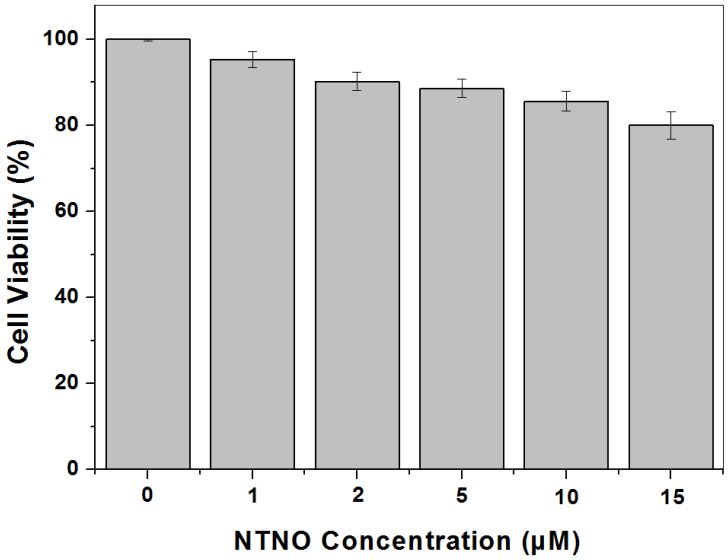


Fig. S4 Cell viability of HeLa cells treated with different concentration of **NTNO** (0, 1, 2, 5, 10 and 15 μM) for 24 h in fresh medium.