

辅助材料(Supporting Information)

一种黄酮荧光探针对胂的识别及细胞成像

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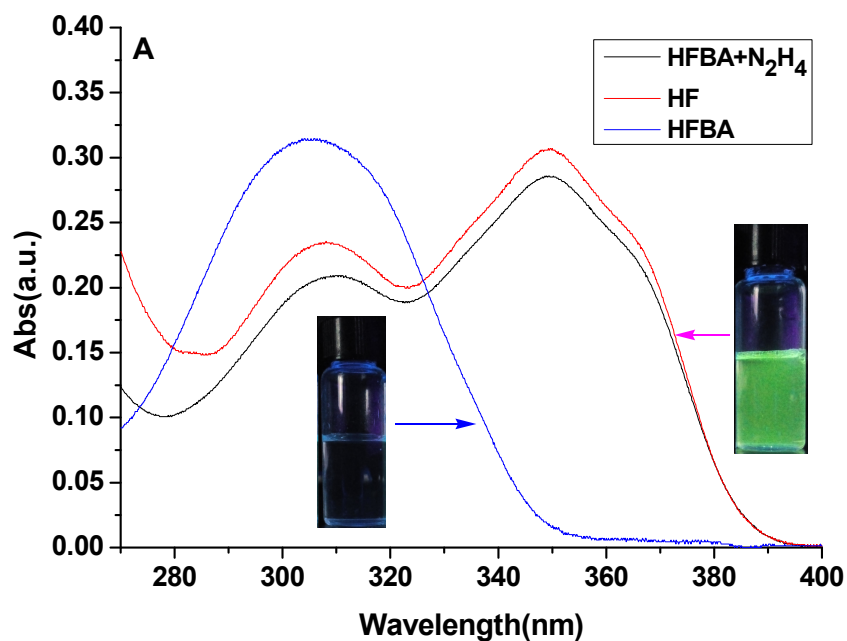


图 S1 探针 HFBA(10 μM)在 DMSO/PBS 缓冲溶液(7:3, v/v)与加入水合肼 (50 μM) 以及母核 HF(10 μM)的紫外-可见吸收光谱

Figure S1 Absorption spectra of probe HFBA(10 μM) in the absence and presence of hydrazine (50 μM) and HF (10 μM) a mixture of DMSO and phosphate buffer saline (PBS, pH 7.4, 20 mM, 3:7, v/v)

M1+H #112 RT: 0.50 AV: 1 NL: 9.94E7
T: FTMS + p ESI Full ms [233.00-637.00]

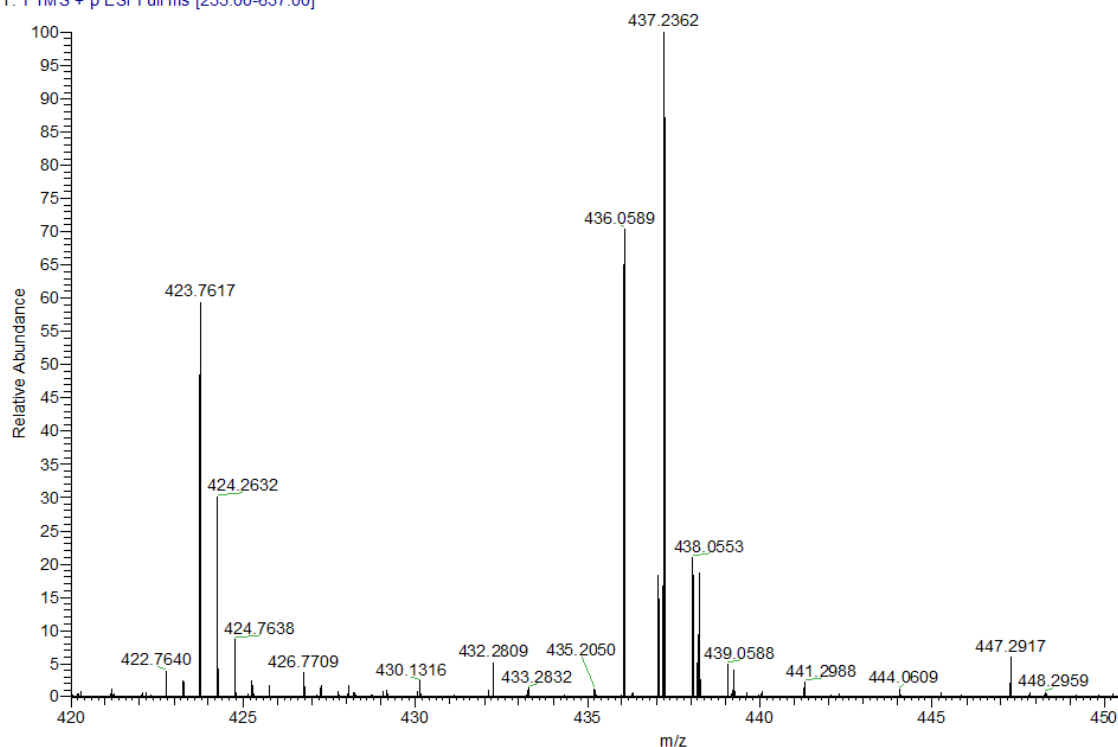


图 S2 探针 HFBA 的高分辨质谱

Figure S2 Mass spectrum of Probe HFBA. HR-MS(ESI): m/z 436.0587 $[\text{M}+\text{H}]^+$

M2-H #108 RT: 0.48 AV: 1 NL: 1.94E8
T: FTMS + p ESI Full ms [50.00-454.00]

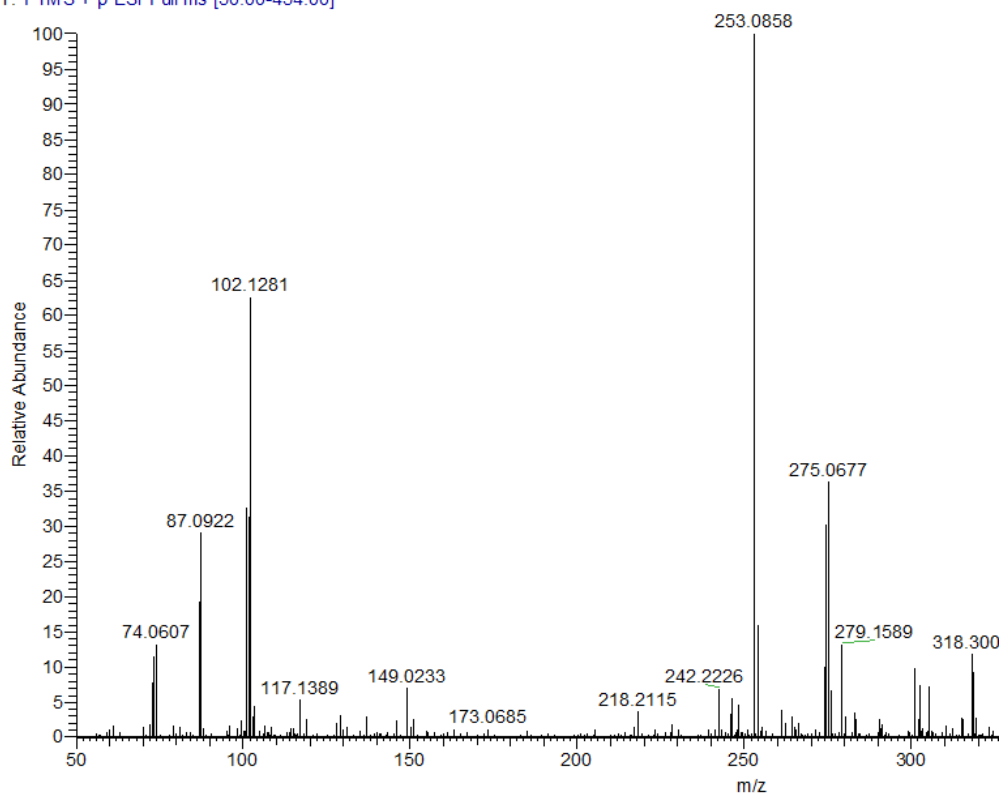


图 S3 探针 HFBA 与肼作用后正电荷模式下的高分辨质谱

Figure S3 Mass spectrum of HFBA in the presence of hydrazine in positive charge mode. HR-MS(ESI): m/z 253.0858 $[M+H]^+$

M2-H #90 RT: 0.40 AV: 1 NL: 3.38E8
T: FTMS - p ESI Full ms [80.00-400.00]

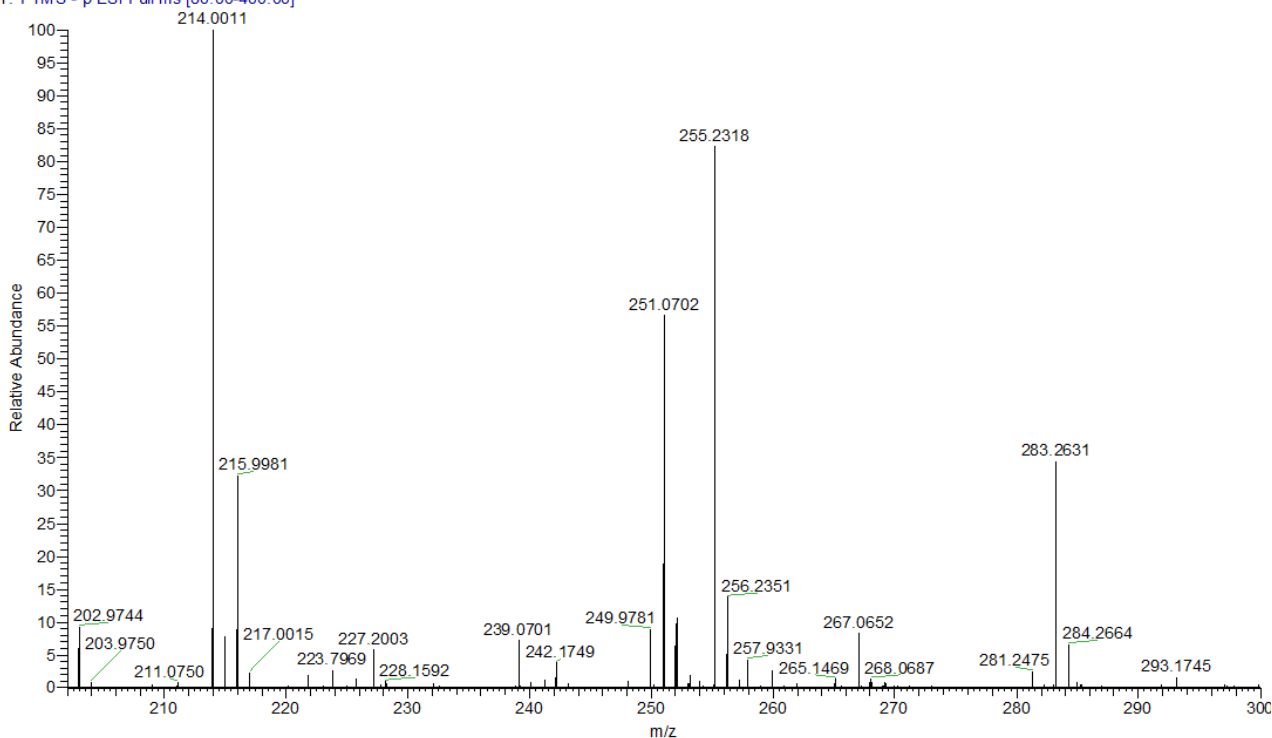


图 S4 探针 HFBA 与肼作用后负电荷模式下的高分辨质谱

Figure S4 Mass spectrum of HFBA in the presence of hydrazine in negative charge mode. HR-MS(ESI): m/z 253.0858 $[M+H]^+$

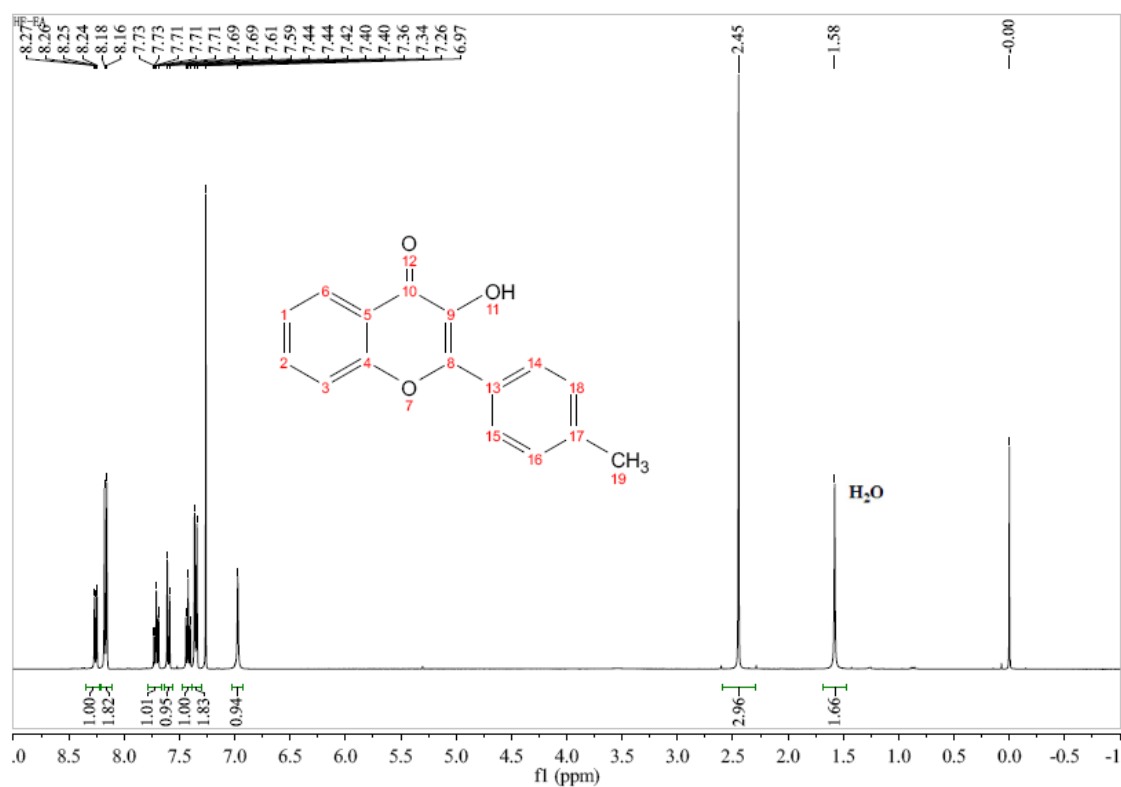


图 S5 母核 HF 的氢谱

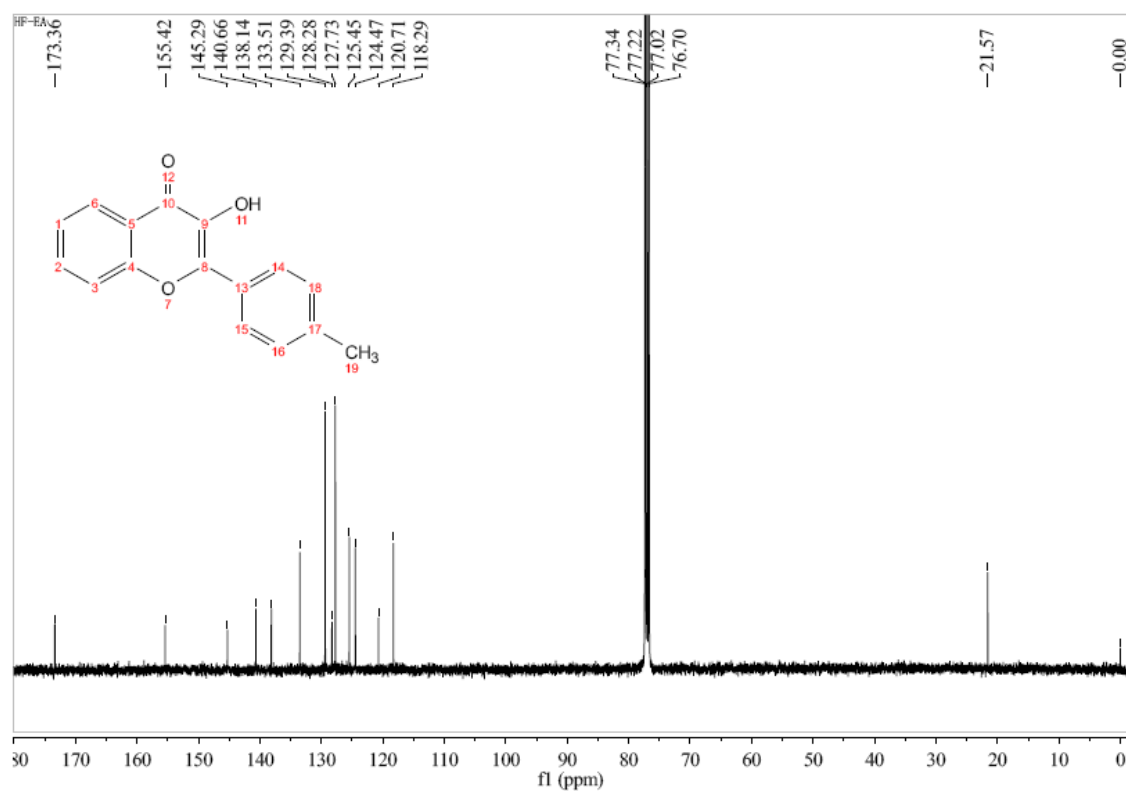
Figure S5 ^1H NMR of HF in CDCl_3 

图 S6 母核 HF 的碳谱

Figure S6 ^{13}C NMR of HF in CDCl_3

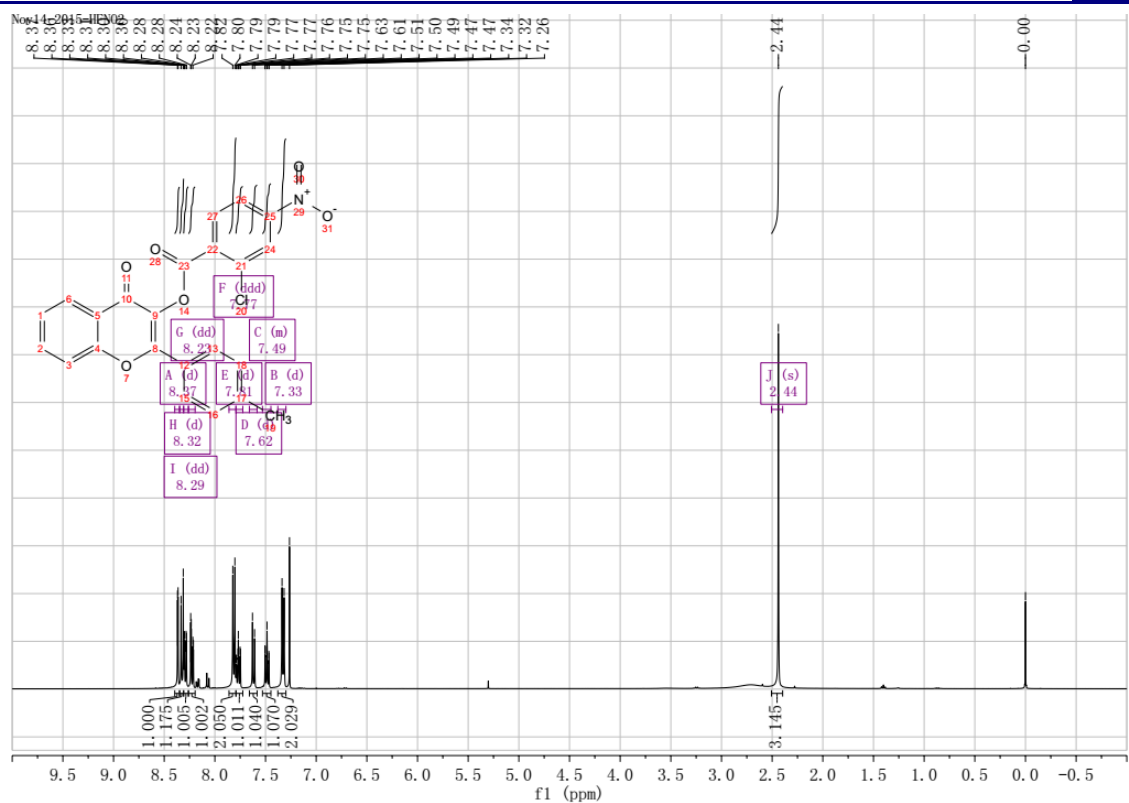


图 S7 探针 HFBA 的氢谱

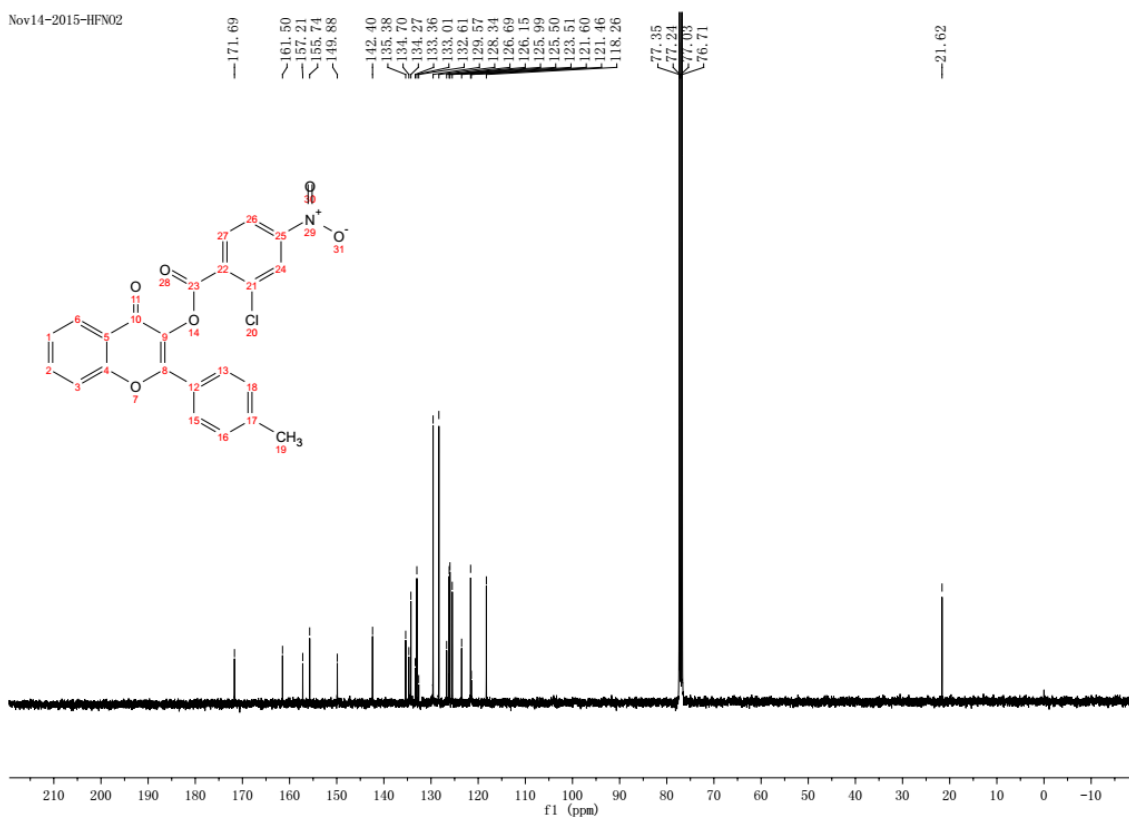
Figure S7 ^1H NMR of Probe HFBA in CDCl_3 

图 S8 探针 HFBA 的碳谱

Figure S8 ^{13}C NMR of Probe HFBA in CDCl_3