

Supporting Information

Fluorescein aldehyde with disulfide functionality as a fluorescence turn-on probe for cysteine and homocysteine in HEPES buffer

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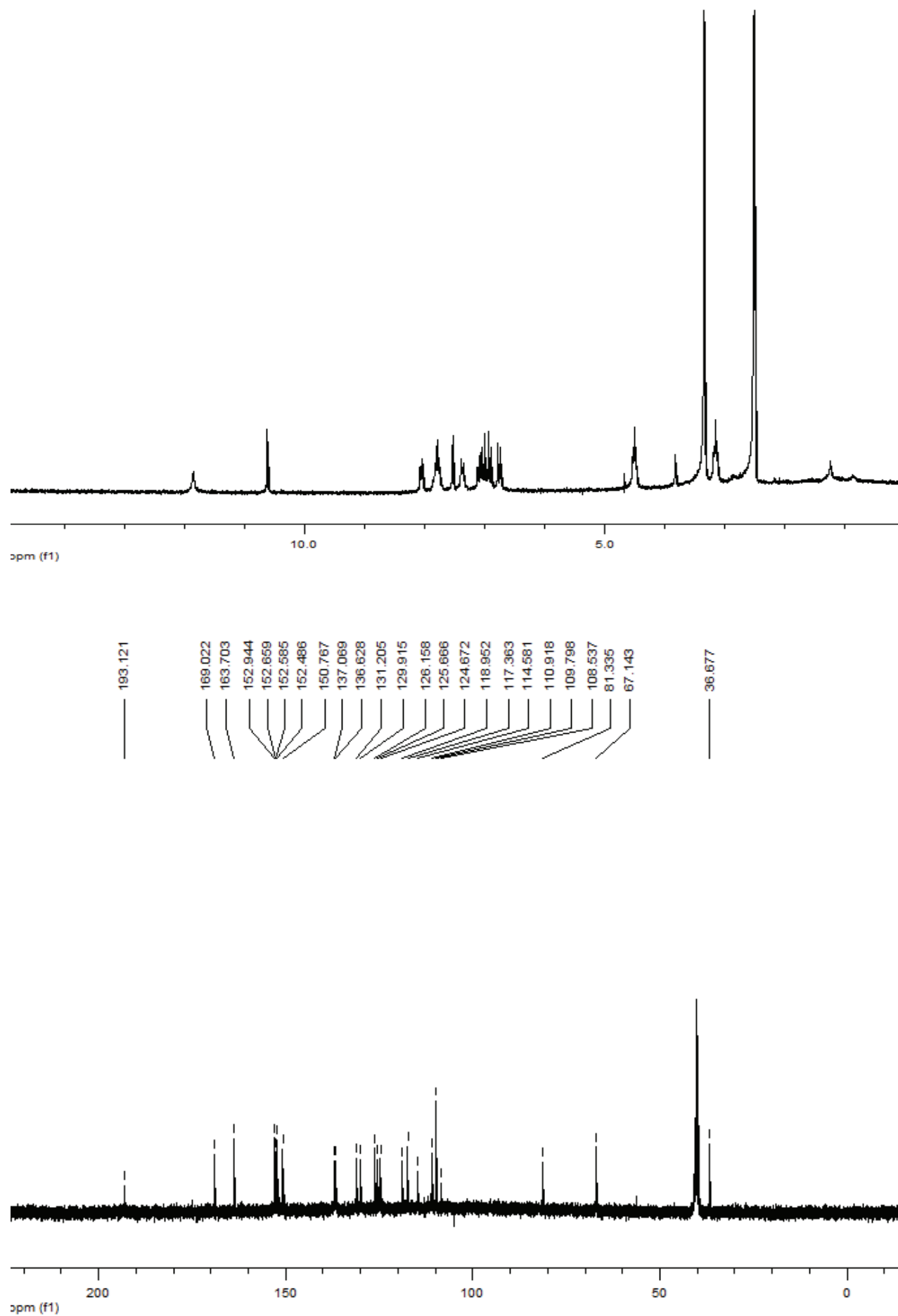
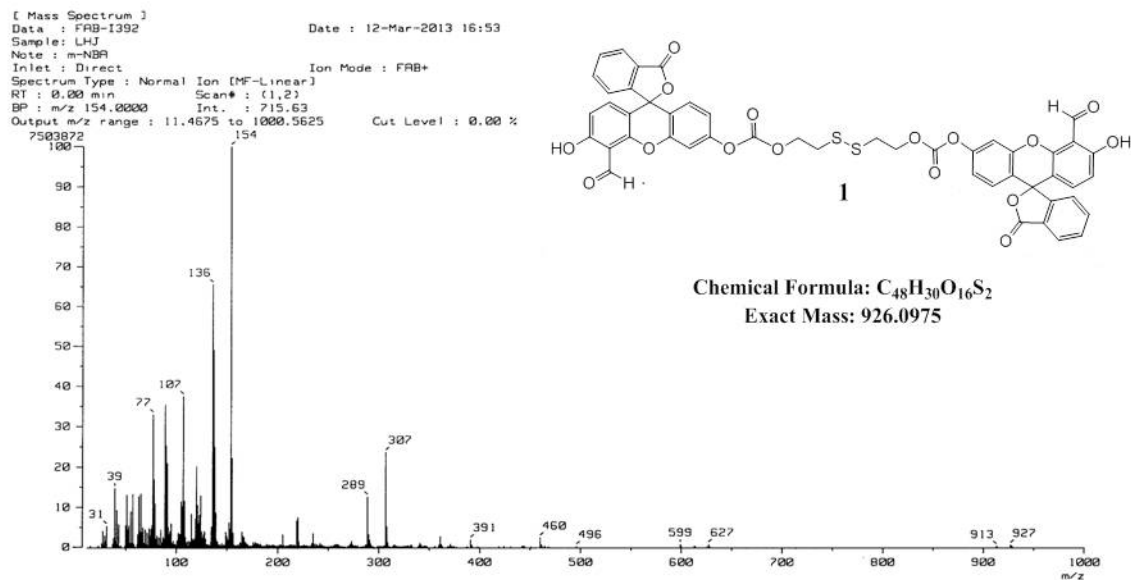


Fig. S1 The ¹H and ¹³C spectra of **1** in DMSO-*d*₆.



[Elemental Composition] Date : 15-Mar-2013 14:58 Page: 1

Data : FAB-I440
Sample: LHJ
Note : m-NBA
Inlet : Direct Ion Mode : FAB+
RT : 0.40 min Scan# : (1,35)
Elements : C 100/0, H 150/0, O 20/10, S 3/0
Mass Tolerance : 1000ppm, 3mmu if m/z < 3, 5mmu if m/z > 5
Unsaturation (U.S.) : -10.0 - 100.0

Observed m/z	Int%	Err [ppm / mmu]	U.S.	Composition
927.1051	100.0	+3.4 / +3.1	39.5	C 51 H 27 O 16 S
		-0.3 / -0.3	35.5	C 48 H 31 O 16 S 2
		+2.4 / +2.2	40.5	C 52 H 31 O 11 S 3
		-3.9 / -3.6	31.5	C 45 H 35 O 16 S 3

[Theoretical Ion Distribution] Page: 1

Molecular Formula : C₄₈ H₃₁ O₁₆ S₂
(m/z 927.1054, MW 927.8965, U.S. 35.5)
Base Peak : 927.1054, Averaged MW : 927.8900(a), 927.8911(w)

m/z	INT.	
927.1054	100.0000	*****
928.1086	55.5753	*****
929.1081	27.2088	*****
930.1091	9.3307	*****
931.1096	2.7114	**
932.1104	0.6623	
933.1114	0.1412	
934.1125	0.0266	
935.1138	0.0045	
936.1152	0.0007	

Fig. S2 The FAB MS spectra of 1.

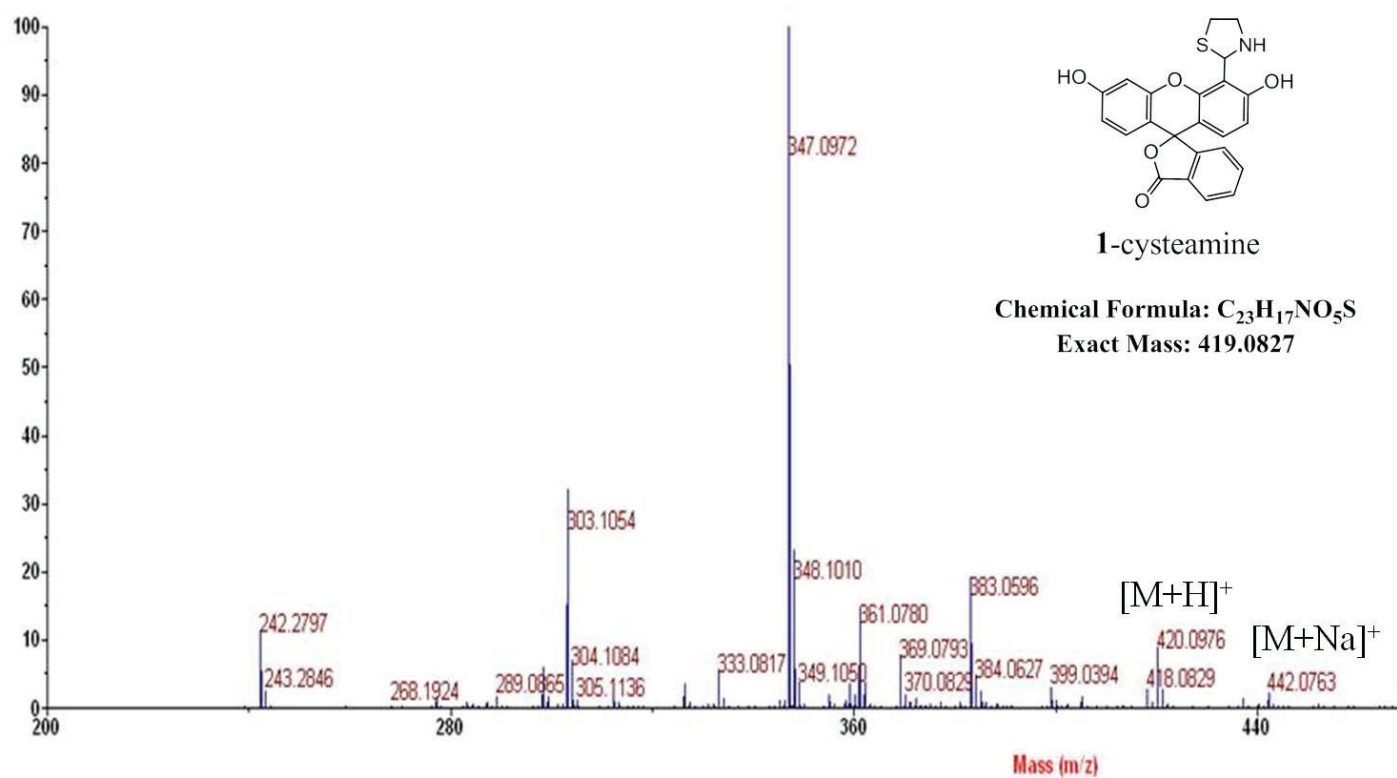


Fig. S3 MALDI-TOF MS of **1-cysteamine**.