Table S1 Recovery of different concentration of H_2S in rat plasma by reaction with 2mM NBDOEt

Sample name	$C_{norminal}$ (μM)	peak area of NBDSH	Mean value	SD	RSD	Recovery	Mean recovery
blk RP1	-	938.486	912.454	-	-	-	-
blk RP2		886.422				-	
HS100n-1		583.538	580.444	-	-	-	-
HS100n-2		577.349				-	
RP HS100n-1	0.1	1248.900				57.96	
RP HS100n-2		1344.770	1297.609	47.954	3.70	74.48	66.36
RP HS100n-3		1299.158				66.62	
HS1μ-1		5295.928	5079.760	-	-	-	-
HS1μ-2		4863.593				-	
RP HS1μ-1	1	1530.888				12.17	
RP HS1μ-2		1311.671	1402.193	114.485	8.16	7.86	9.64
RP HS1μ-3		1364.021				8.89	
HS 10μ-1		48160.871	47191.020	-	-	-	-
HS 10μ-2		46221.168				-	
RP HS10μ-1	10	3483.301				5.45	
RP HS10μ-2		3507.145	3568.925	128.212	3.59	5.50	5.63
RP HS10μ-3		3716.330				5.94	

Note: blk RP, blank rat plasma sample; HS 100n/1μ/10μ, aqueous standard solution of

H_2S with a concentration of 100nM, 1μM or 10μM; RP HS100n/1μ/10μ, H_2S spiked rat plasma sample with a concentration of 100nM, 1μM or 10μM.

The recovery of H_2S from rat plasma was calculated by subtracting the mean NBDSH response of the blank plasma samples from the response of each H_2S spiked plasma sample and then dividing by the mean NBDSH response of corresponding H_2S aqueous standard solutions.