Table S1: HPLC purity data for target compounds

Analytical HPLC were performed using an Agilent 1100 equipped with a Waters X terra 3 x 250mm column and UV detection at 220 and 254 nM.

Chromatography system A: 46 minutes linear gradient at pH 2.0 from 90:10 to 10:90 H2O:CH3CN (0.025% TFA) at a 1.0mL/min flow rate .

Chromatography system B: 46 minutes linear gradient at pH 9.0 from 90:10 to 10:90 H2O:CH3CN (0.1%NaOH) at a 1.0mL/min flow rate .

Compound	Chromatography System	Retention Time (min)	Purity 220nM (%)	Purity 254nM (%)
3a	A	11.40	96.6	95.0
	B	20.50	100.0	100.0
3b	A	13.30	100.0	100.0
	B	22.14	100.0	100.0
3c	A	16.67	100.0	100.0
	B	27.01	100.0	100.0
3d	A	18.14	87.5	100.0
	B	28.09	92.5	100.0
3e	A	23.16	95.1	95.8
	B	33.14	96.2	97.8
3f	A	16.53	100.0	100.0
	B	26.46	99.8	100.0
3g	A	20.20	98.3	97.7
	B	30.57	95.4	96.0
3h	A	20.47	98.7	98.4
	B	38.60	90.4	88.8
3i	A	21.50	100.0	100.0
	B	45.09	100.0	100.0
(R)-4a	A	25.24	96.1	97.0
	B	34.85	95.0	97.3
(S)-4a	A	22.12	85.6	95.0
	B	34.74	100.0	100.0
(R)-4b	A	17.91	100.0	91.2
	B	29.52	100.0	100.0
(S)-4b	A	18.37	94.8	95.0
	B	29.49	100.0	100.0

Table S2: MALDI-FTMS data

Compound	Empiric Formula	MALDI-FTMS [MH+]	
		Calc	Found
3a	$C_{19}H_{22}N_2O$	295.1805	295.1808
3b	$C_{20}H_{24}N_2O$	309.1961	309.1968
3c	$C_{19}H_{20}Cl_2N_2O$	363.1025	363.1026
3d	$C_{20}H_{22}Cl_2N_2O$	377.1182	377.1178
3e	$C_{25}H_{24}Cl_2N_2O_2$	455.1288	455.1283
3f	$C_{20}H_{20}Cl_2N_2O_3$	407.0924	407.0915
3g	$C_{21}H_{20}Cl_2N_2OS$	419.0746	419.0756
3h	$C_{29}H_{29}ClN_2O$	457.2041	457.2039
3i	$C_{24}H_{35}ClN_2O$	403.2511	403.2508
(R)-4a	$C_{22}H_{22}Cl_2N_2OS$	433.0903	433.0899
(S)-4a	$C_{22}H_{22}Cl_2N_2OS$	433.0903	433.0912
(R)-4b	$C_{23}H_{30}N_2O$	351.2431	351.2423
(S)-4b	$C_{23}H_{30}N_2O$	351.2431	351.2426