

FIG. 1A

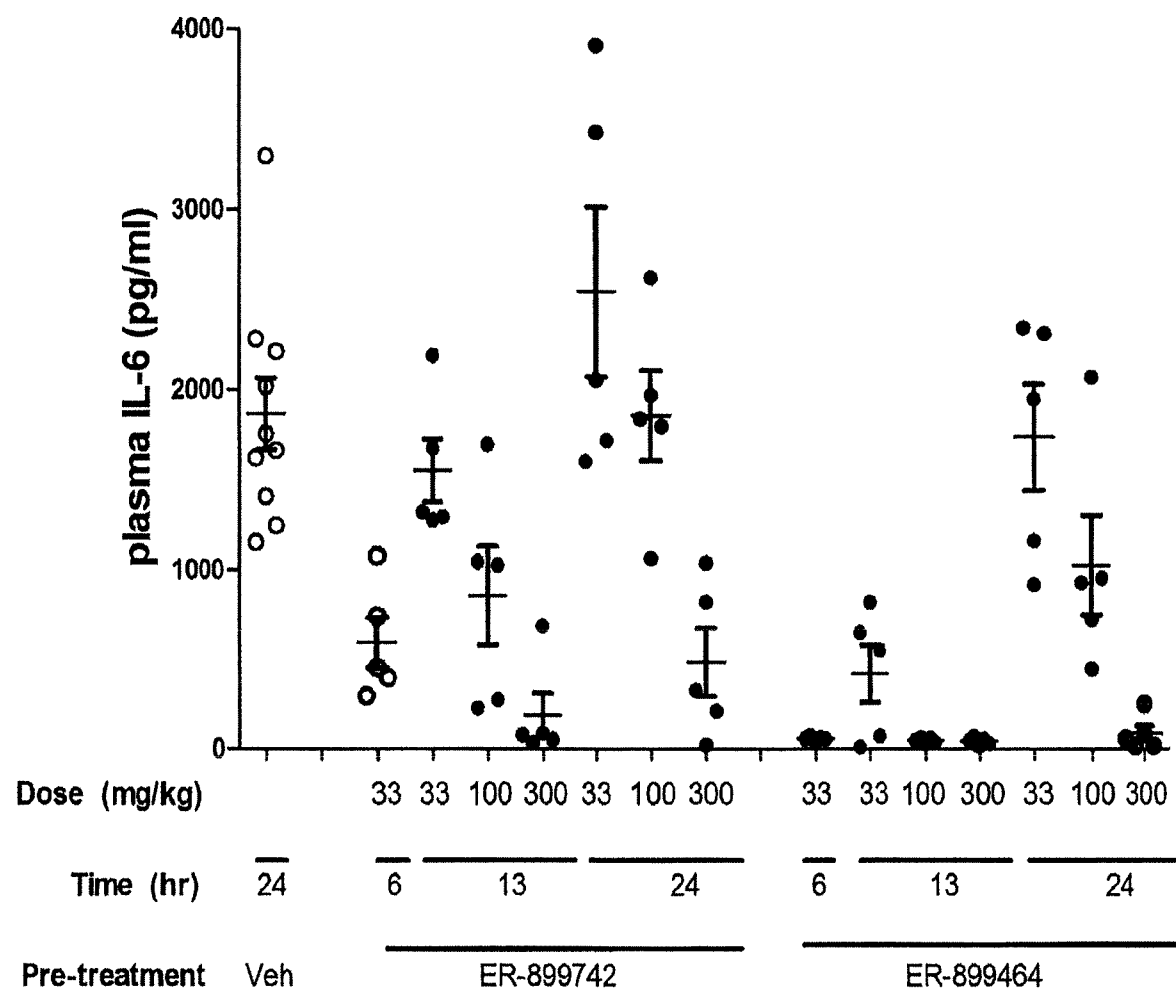


FIG. 1B

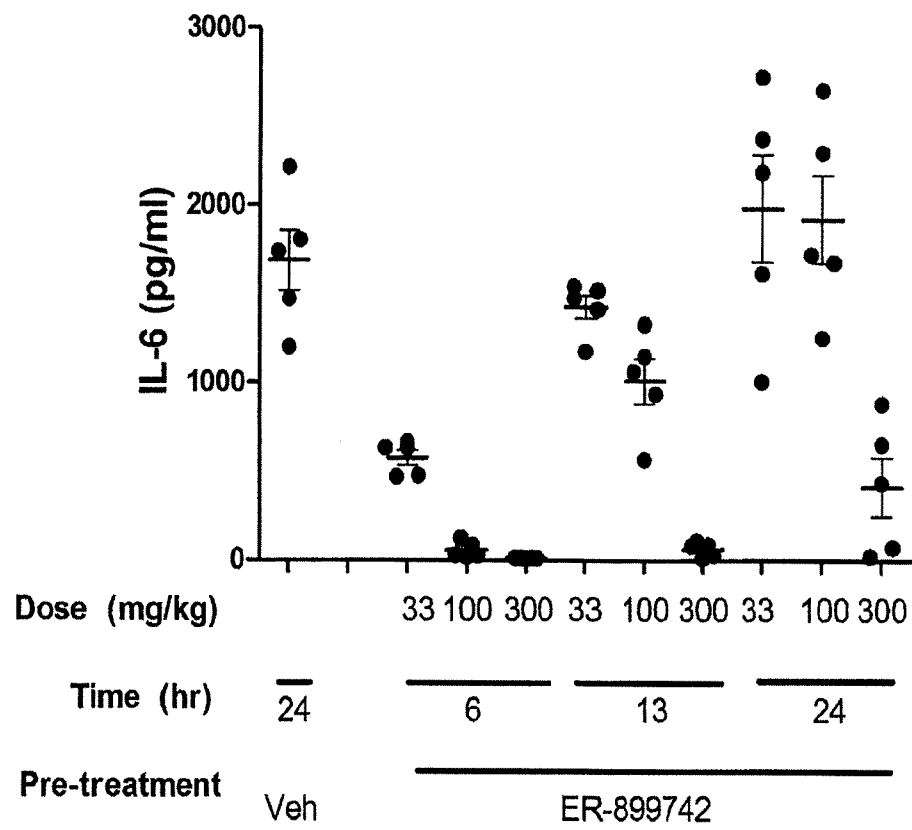
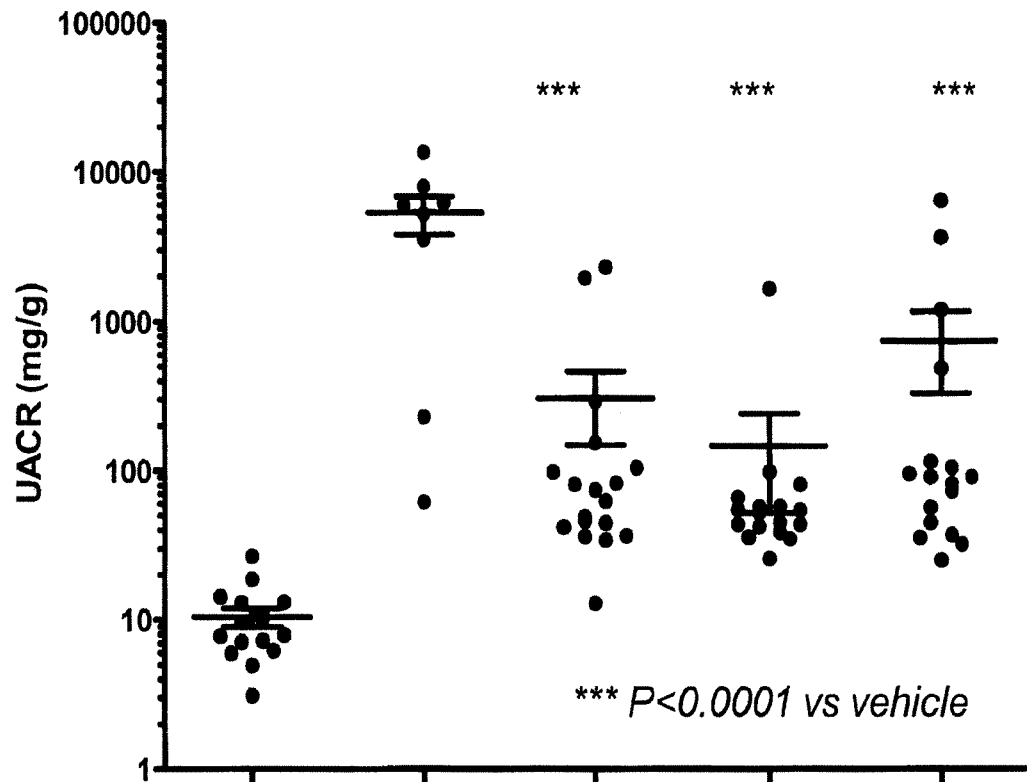


FIG. 2A



Treatment	Pre-disease	Veh	-742	-742	-742
Dose (mpk)	---	---	33	100	300
Duration (wks)	---	21	21	21	21
Age (wks)	9	50	50	50	50

FIG. 2B

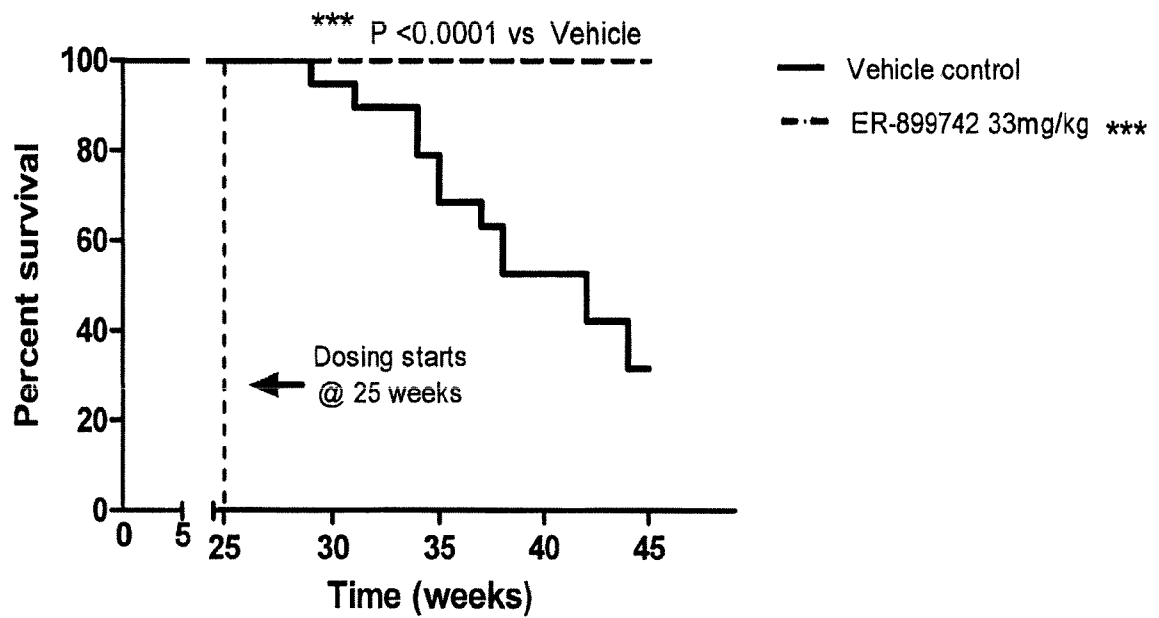
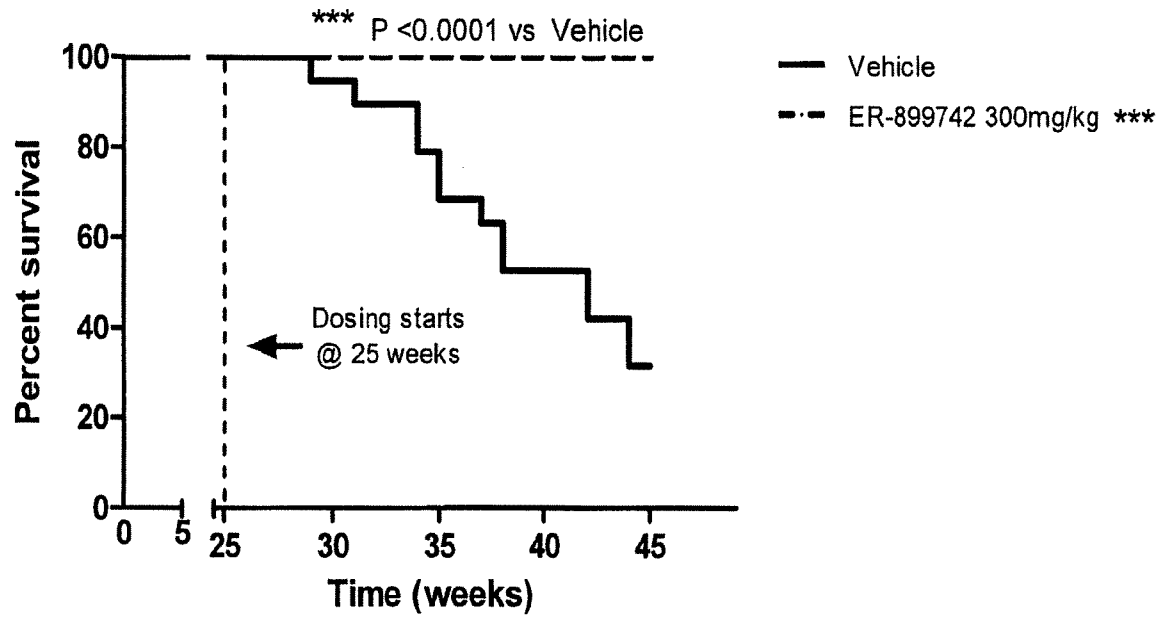


FIG. 2C

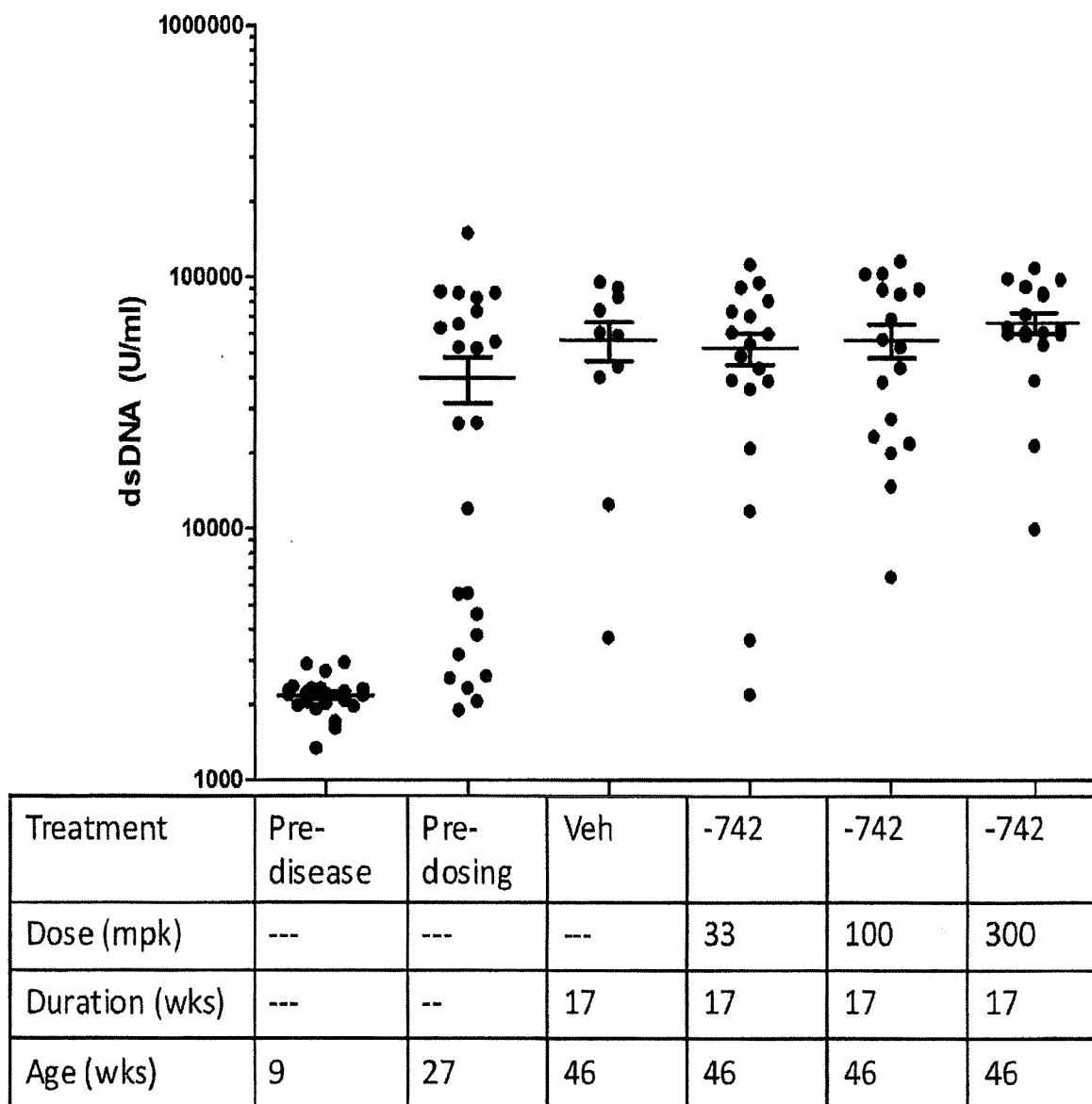


FIG. 3A

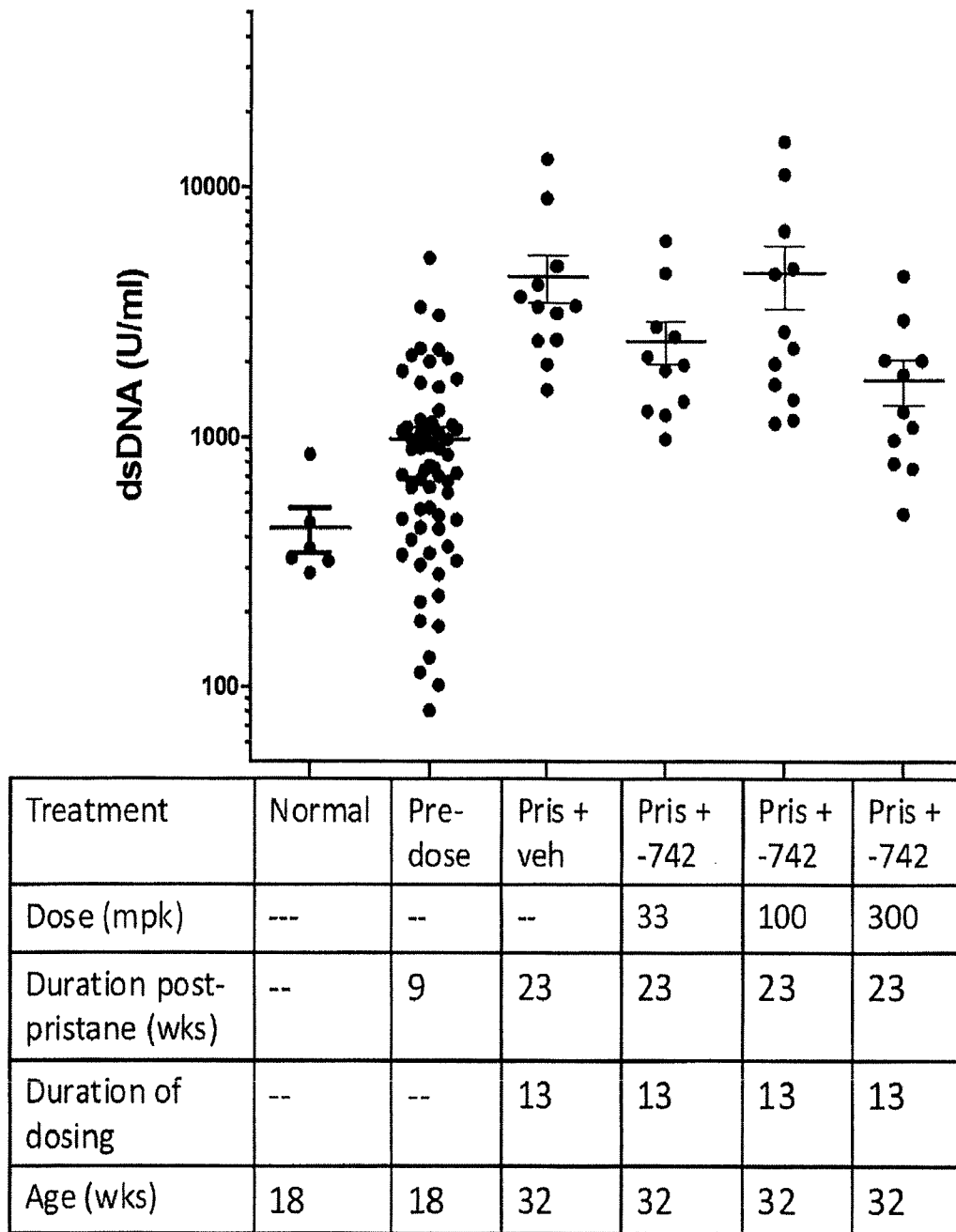


FIG. 3B

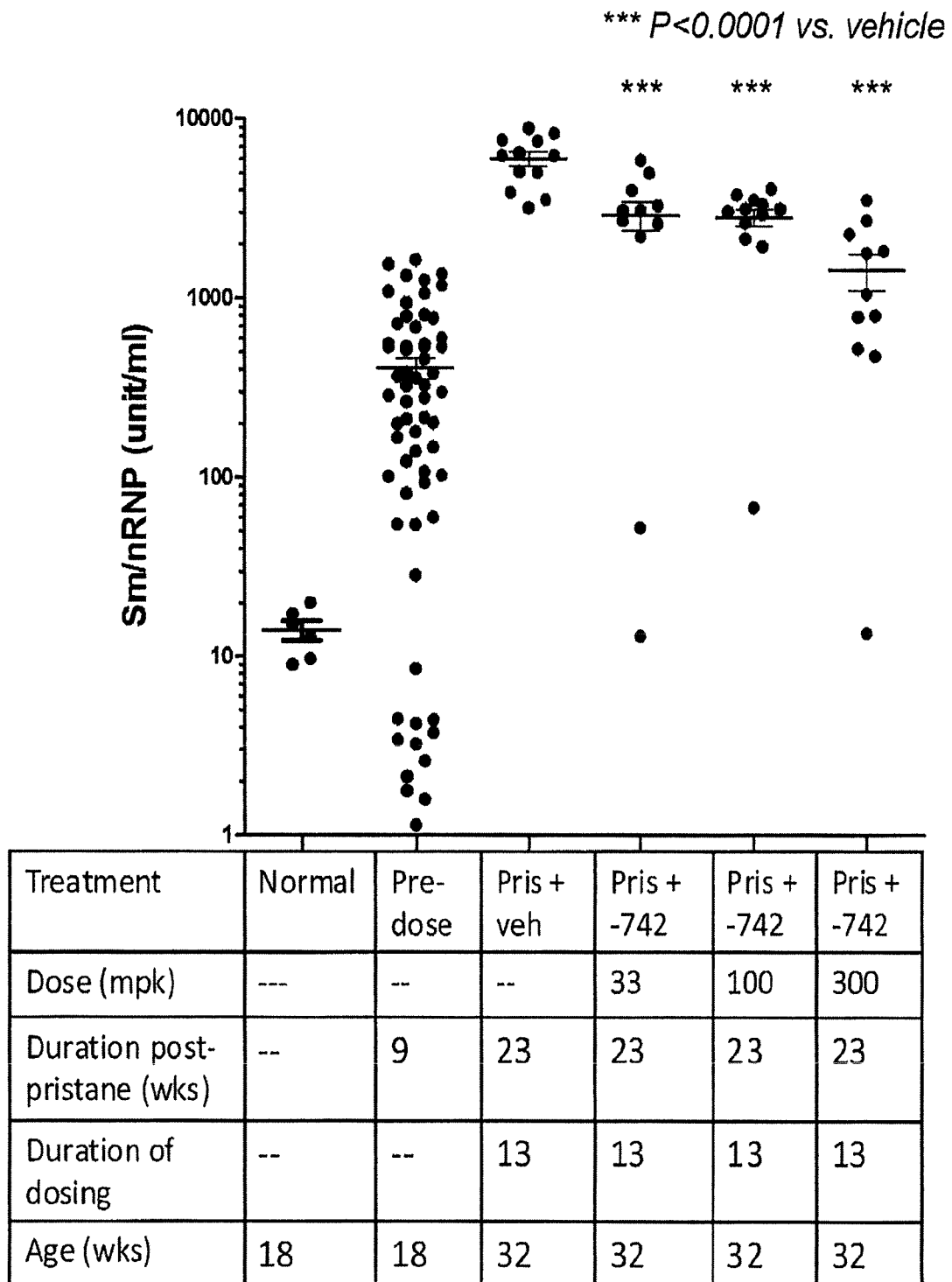
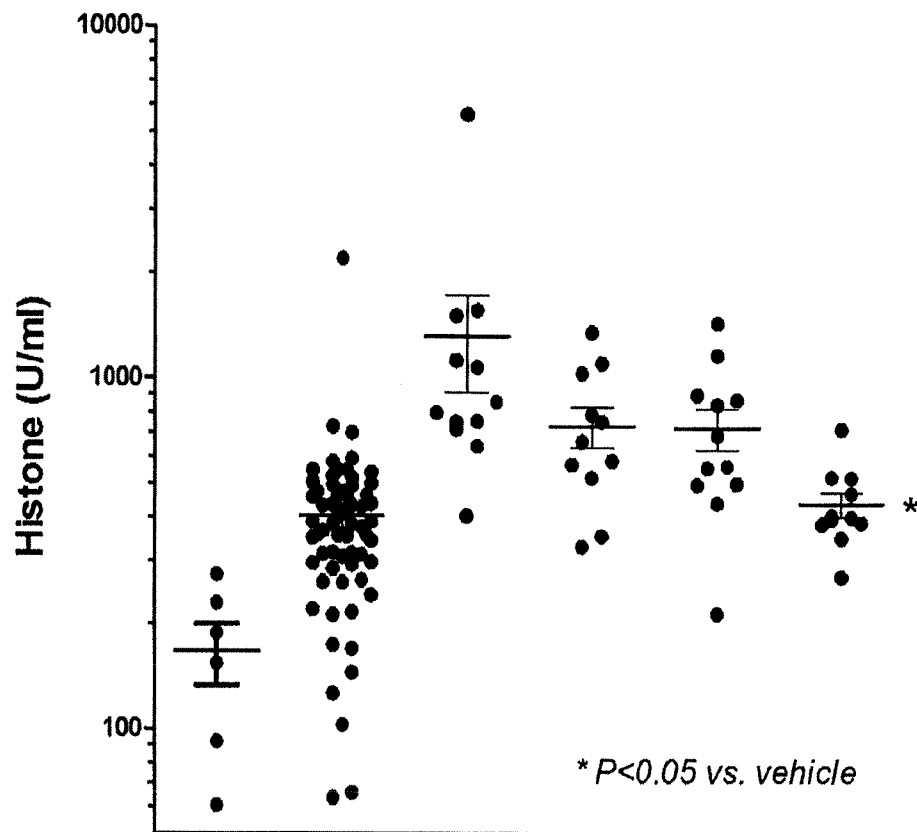


FIG. 3C



Treatment	Normal	Pre-dose	Pris + veh	Pris + -742	Pris + -742	Pris + -742
Dose (mpk)	---	--	--	33	100	300
Duration post-pristane (wks)	--	9	23	23	23	23
Duration of dosing	--	--	13	13	13	13
Age (wks)	18	18	32	32	32	32

FIG. 3D

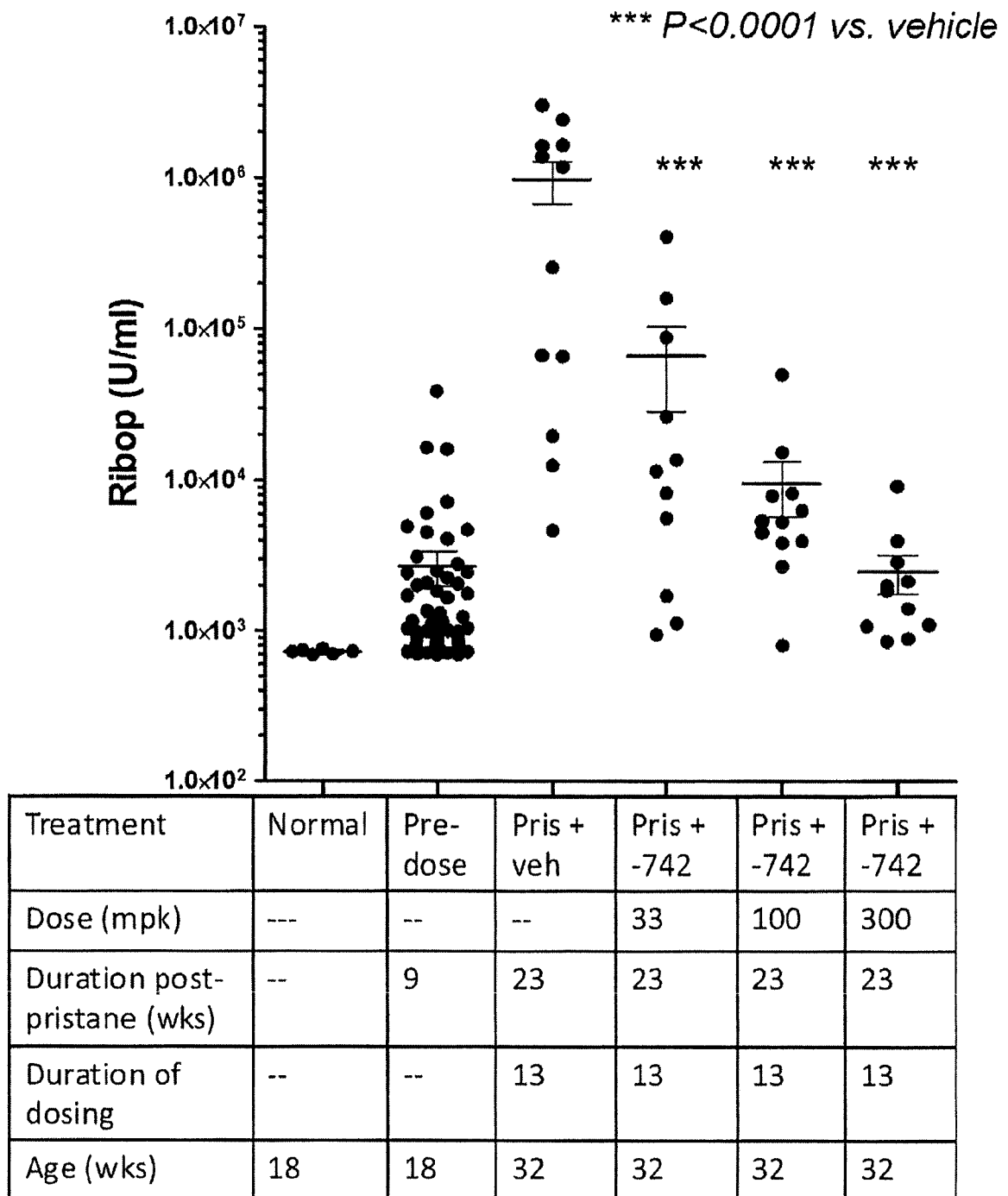


FIG. 3E

Gene Number	Gene Name
1	Oas3
2	Ifi27l2a
3	Ifi44 *
4	Oasl2
5	Irf7 *
6	Ifit1 *
7	Cmpk2
8	Xaf1
9	Mx1
10	Fcgr1
11	Mmp8
12	Ddx60
13	Ifi204
14	Usp18 *
15	Ifi202b
16	Siglec1 *
17	Isg15 *
18	Herc6
19	Ifit3
20	Fpr1
21	Bst2
22	Cxcl10
23	Ms4a6c
24	Mmp9
25	Ccr2
26	Cd38
27	Tlr7
28	Prf1
29	C1qa
Twenty nine (29) genes significantly altered between Pristane + Vehicle vs. uninduced PBS control (P<0.05, at least 1.5 fold change)	
* Significantly reduced by ER-899742 vs. vehicle-treated pristine-induced mice (6 genes) (P<0.05, at least 1.5 fold change)	

FIG. 4A

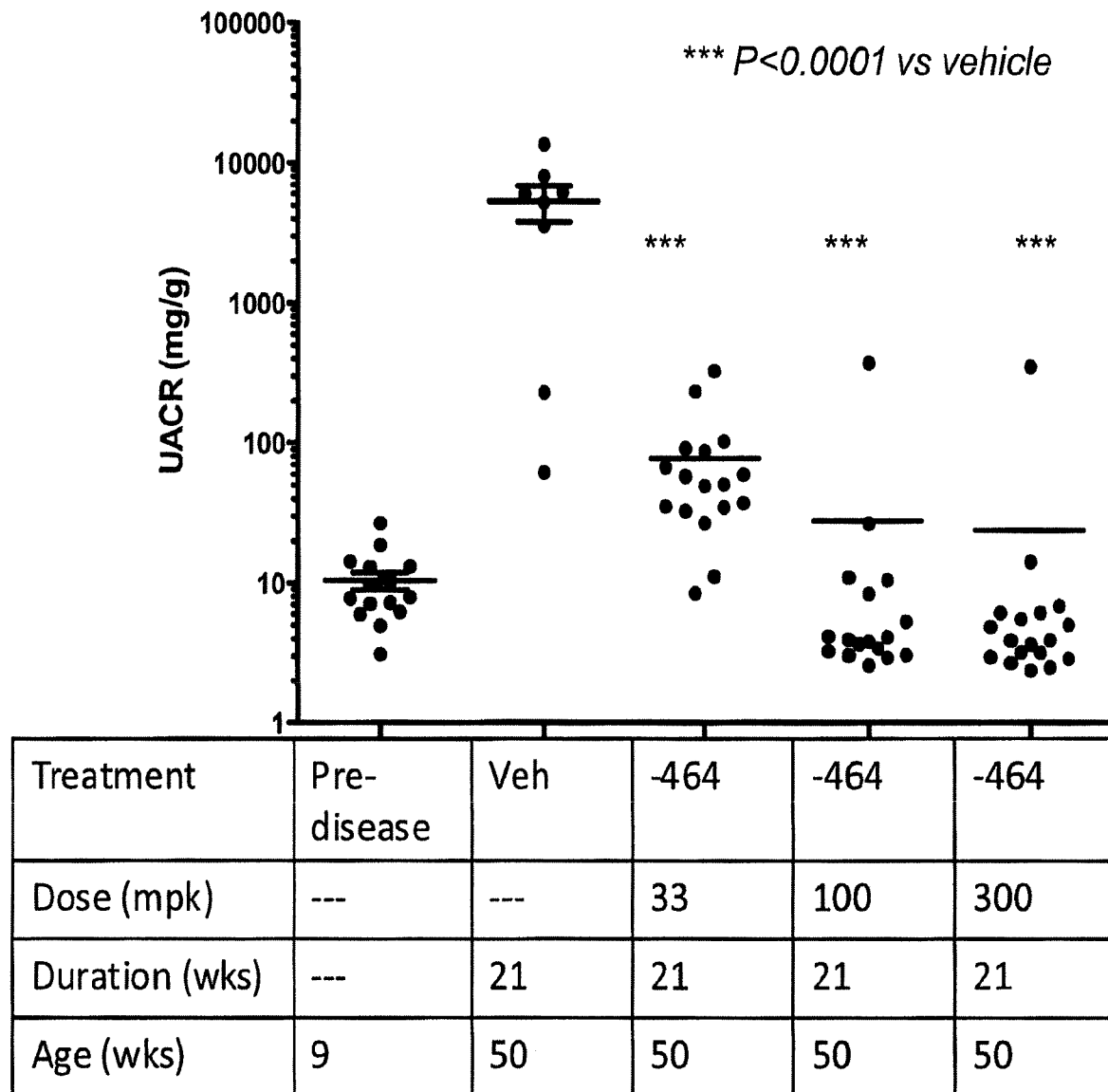


FIG. 4B

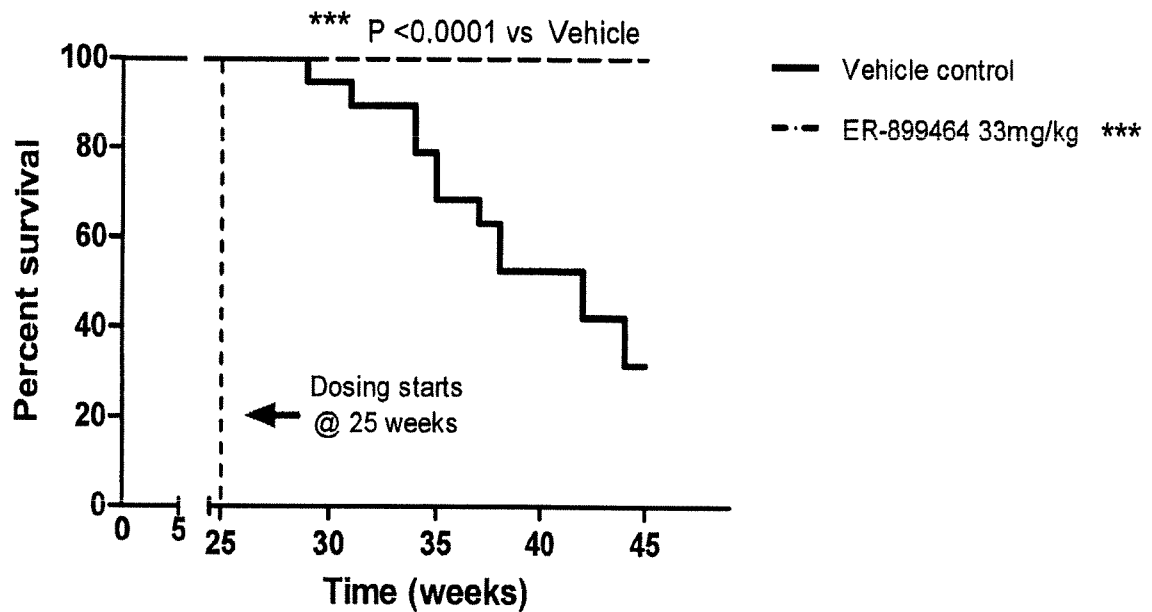
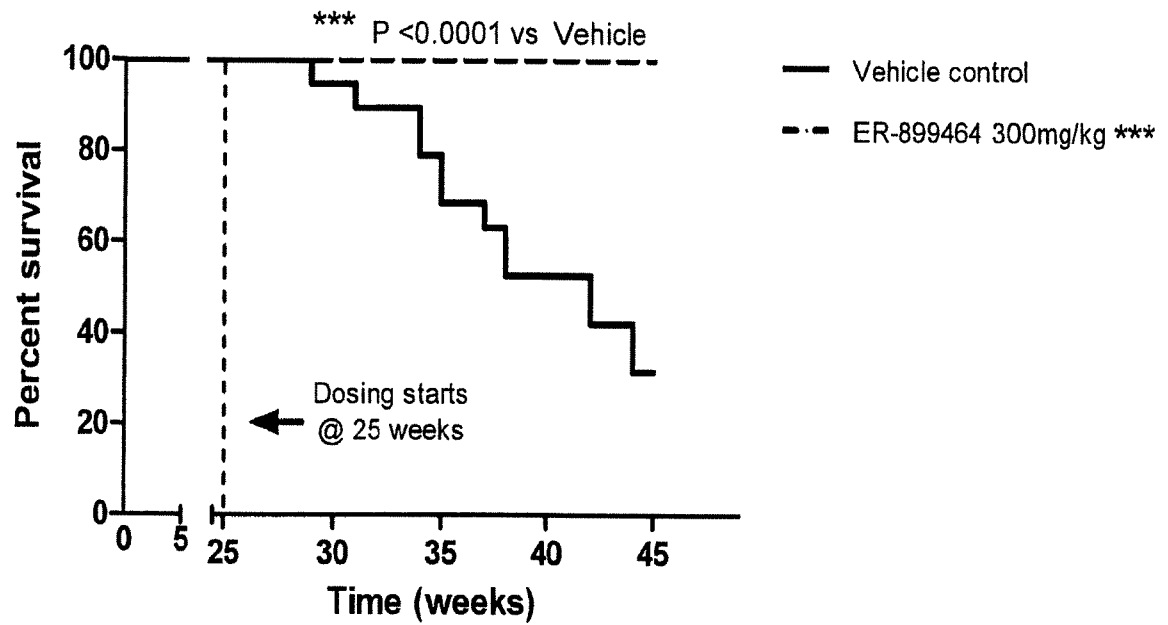


FIG. 4C

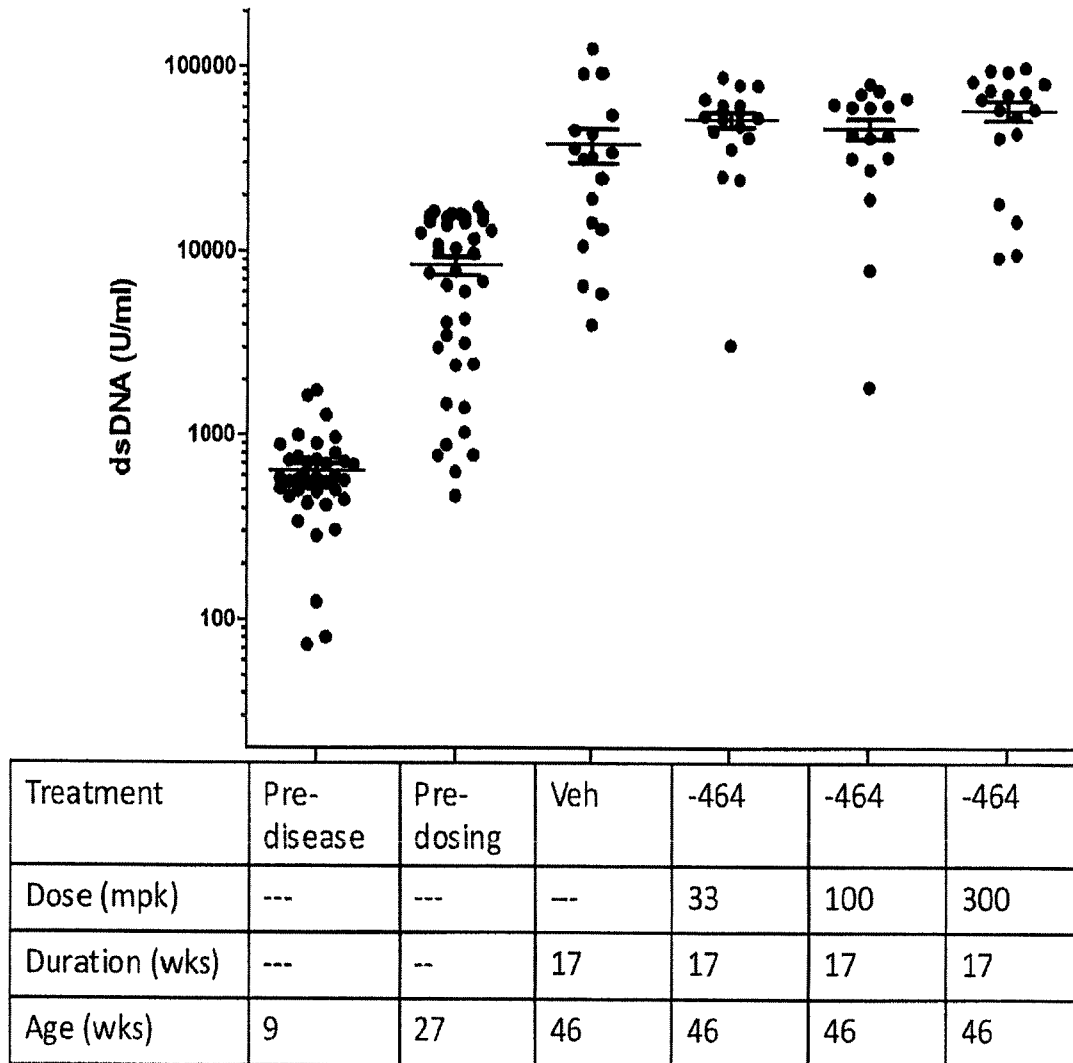


FIG. 5A

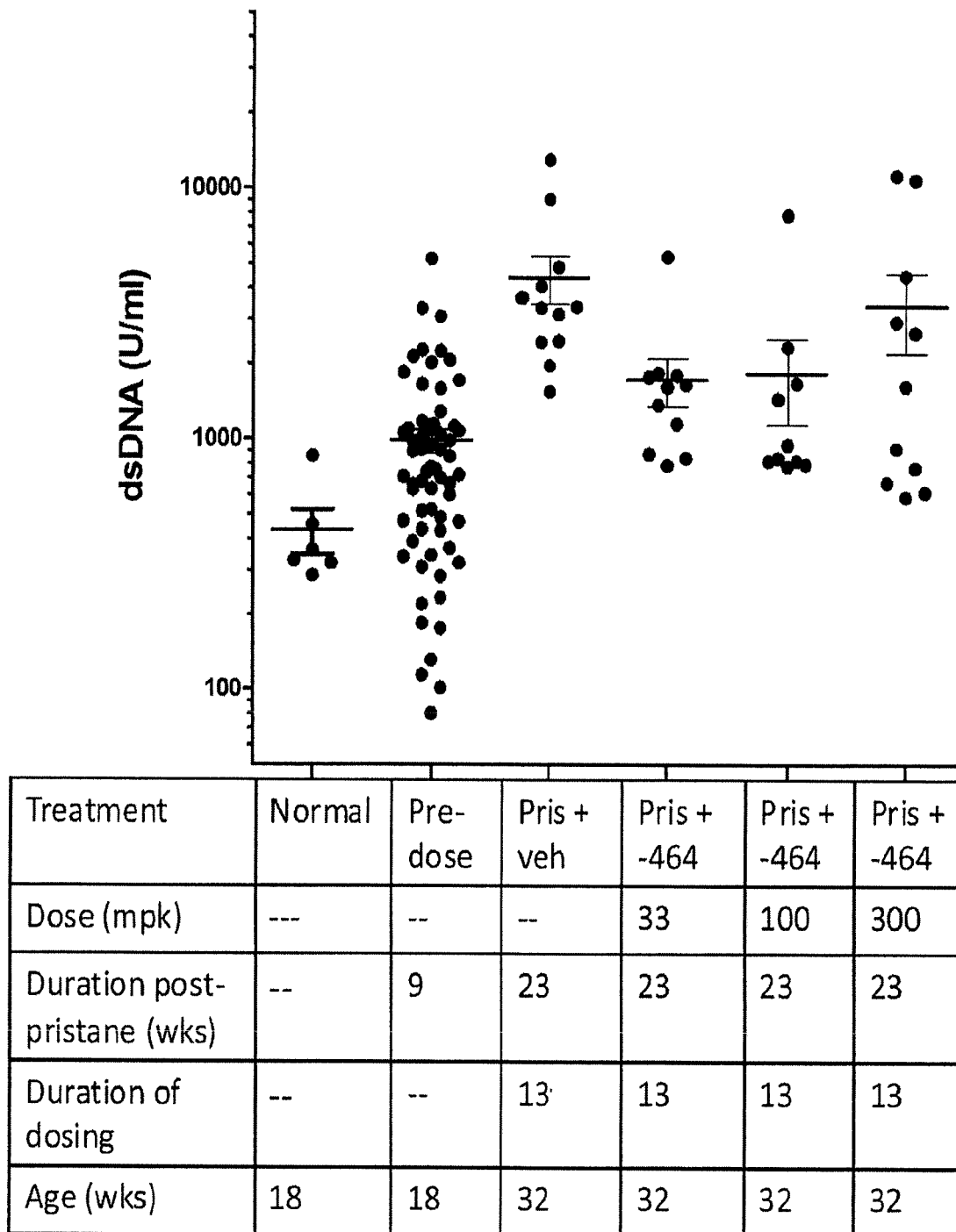


FIG. 5B

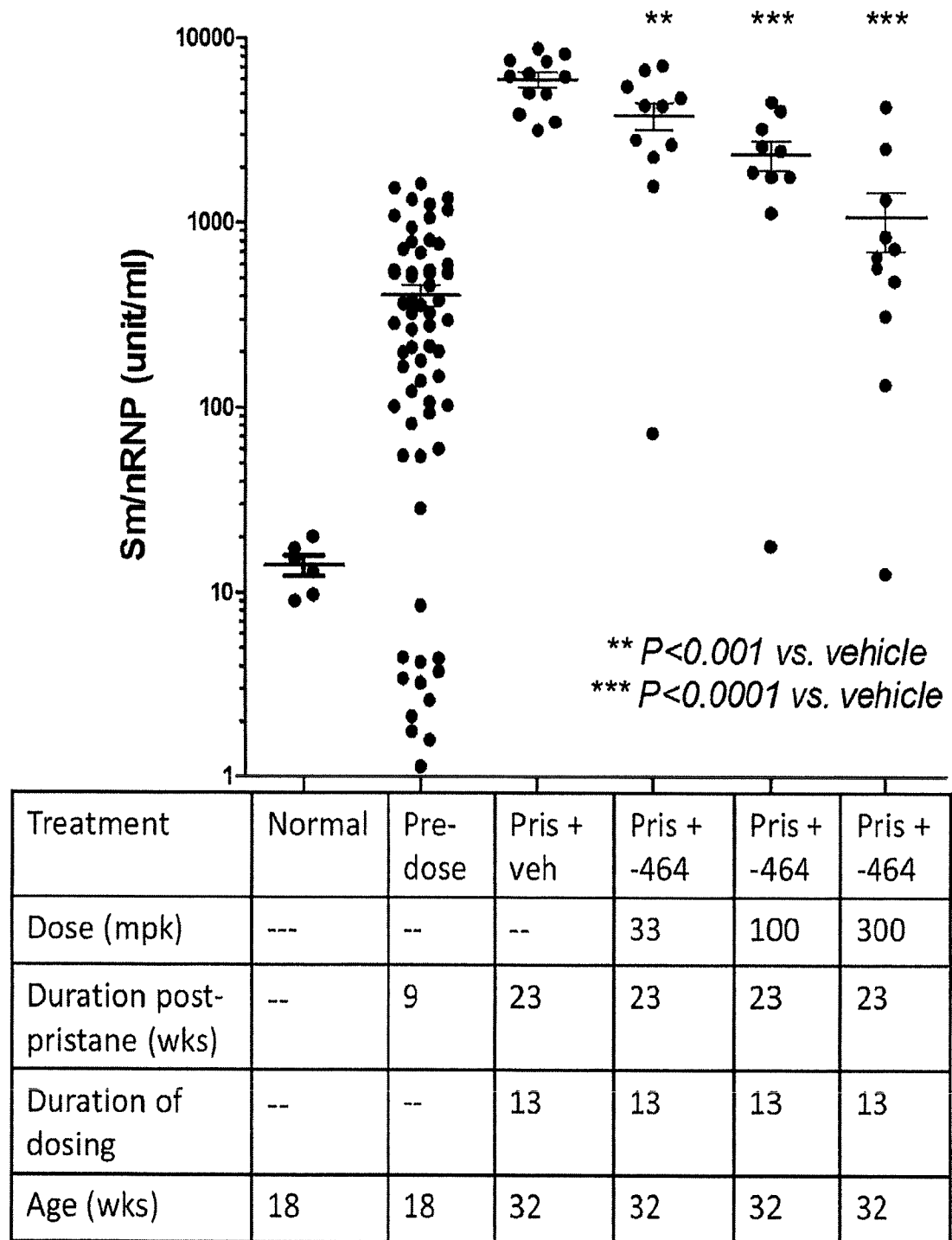


FIG. 5C

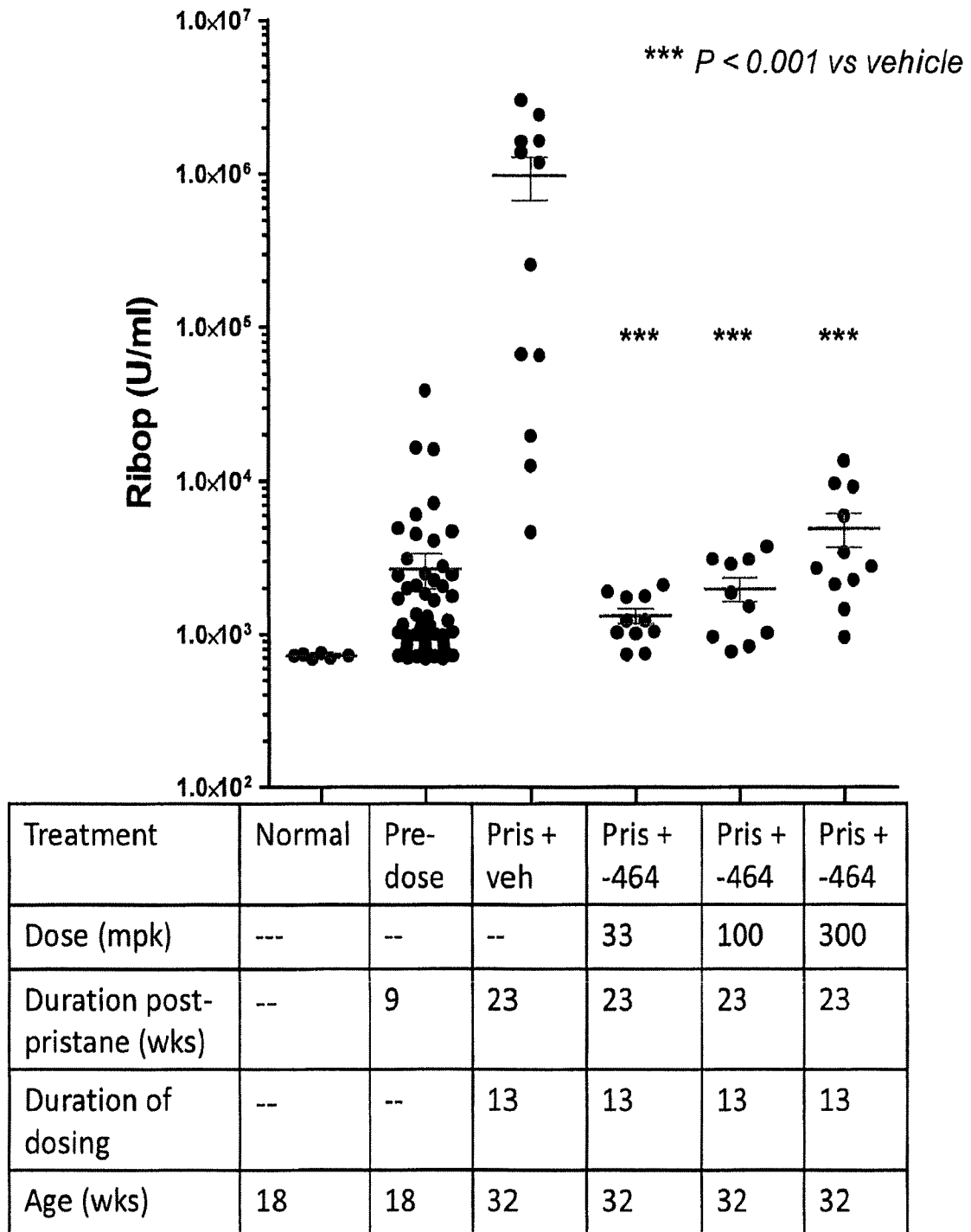


FIG. 5D

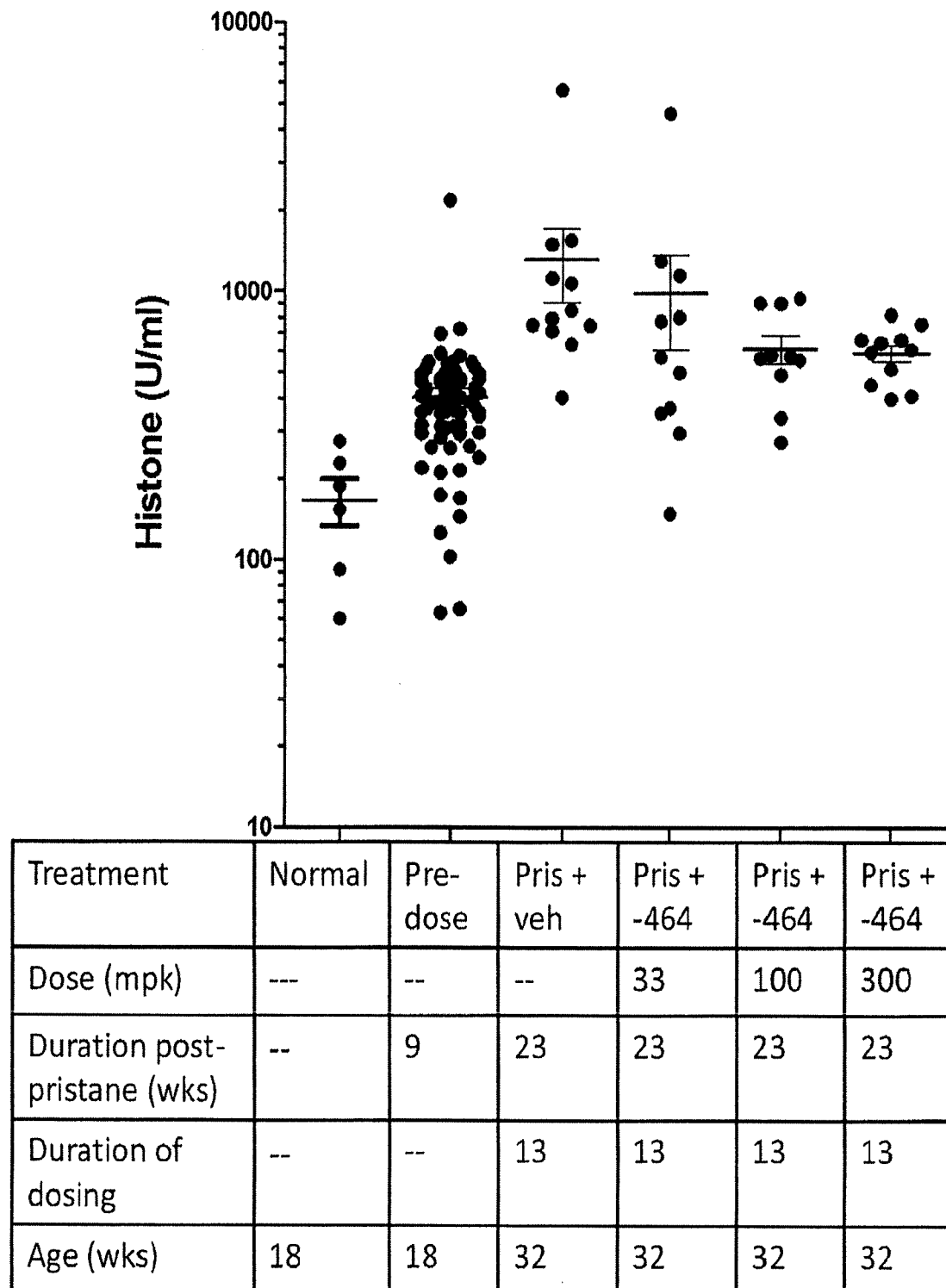


FIG. 6A

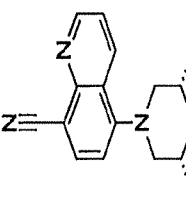
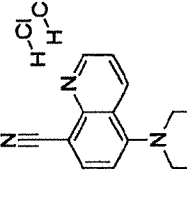
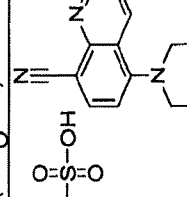
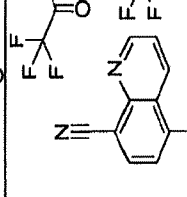
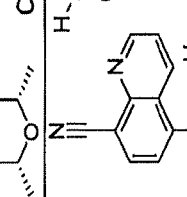
Number	Structure	MW	HEK hTLR7 IC50 (μ M)	HEK/ hTLR9 IC50 (μ M)	Chemical Name	¹ H-NMR	MS
ER-878952	 C ₁₆ H ₁₇ N ₃ O	267.3	0.1136	>30	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, methanol-d ₄) δ ppm 0.93 (6 H, d) 1.97 - 2.12 (2 H, m) 2.31 - 2.45 (2 H, m) 3.35 - 3.47 (2 H, m) 7.09 - 7.22 (1 H, m) 7.53 - 7.62 (1 H, m) 8.01 - 8.10 (1 H, m) 8.46 - 8.56 (1 H, m) 8.86 - 8.95 (1 H, m),	LCMS (ESI+) calcd for C ₁₆ H ₁₇ N ₃ O (M+H ⁺) 268.3, found 268.1
ER-878952-02	 C ₁₆ H ₁₉ Cl ₂ N ₃ O	340.3	0.0738	>20	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carbonitrile dihydrochloride	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.93 (6 H, d) 1.97 - 2.12 (2 H, m) 2.31 - 2.45 (2 H, m) 3.35 - 3.47 (2 H, m) 7.09 - 7.22 (1 H, m) 7.53 - 7.62 (1 H, m) 8.01 - 8.10 (1 H, m) 8.46 - 8.56 (1 H, m) 8.86 - 8.95 (1 H, m)	LCMS (ESI+) calcd for C ₁₆ H ₁₇ N ₃ O (M+H ⁺) 268.3, found 268.1
ER-878952-13	 C ₁₇ H ₂₁ N ₃ O ₄ S	363.4	0.1410	>20	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carbonitrile methanesulfonate	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.26 (d, J=6.34 Hz, 7 H) 2.84 - 2.98 (m, 14 H) 3.40 - 3.54 (m, 2 H) 4.02 - 4.13 (m, 2 H) 7.42 (d, J=8.54 Hz, 1 H) 8.22 - 8.35 (m, 2 H) 9.27 (d, J=1.22 Hz, 1 H) 9.44 (d, J=4.64 Hz, 1 H) 12.42 (br. s., 2 H)	
ER-878952-24	 C ₂₀ H ₁₉ F ₆ N ₃ O ₅	495.4	0.0490	>20	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carbonitrile bis(2,2,2-trifluoroacetate)	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.94 (d, J=6.45 Hz, 9 H) 1.91 (br. s., 1 H) 2.02 (dd, J=7.32, 3.81 Hz, 3 H) 2.39 (t, J=11.57 Hz, 3 H) 3.38 - 3.43 (m, 3 H) 7.16 (d, J=7.91 Hz, 1 H) 7.57 (dd, J=8.50, 4.39 Hz, 1 H) 8.07 (d, J=8.20 Hz, 1 H) 8.52 (dd, J=8.64, 1.61 Hz, 1 H) 8.91 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-878952-25	 C ₁₆ H ₂₁ N ₃ O ₇ S ₂	431.5	0.1200	>20	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carbonitrile bis(sulfonate)	¹ H NMR (400 MHz, DMSO-d ₆) δ ppm 1.09 (d, J=6.15 Hz, 8 H) 2.52 (t, J=11.13 Hz, 3 H) 3.26 - 3.30 (m, 5 H) 3.86 - 3.95 (m, 3 H) 7.16 (d, J=8.20 Hz, 1 H) 7.62 (ddd, J=8.50, 4.10, 1.17 Hz, 1 H) 8.19 (dd, J=7.91, 1.17 Hz, 1 H) 8.51 (dd, J=8.64, 1.32 Hz, 1 H) 8.99 (dt, J=2.71, 1.43 Hz, 1 H)	

FIG. 6B

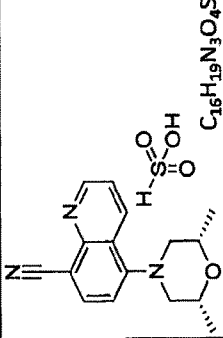
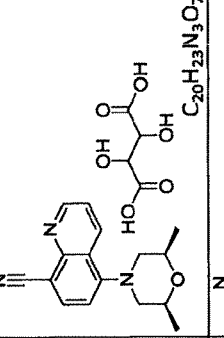
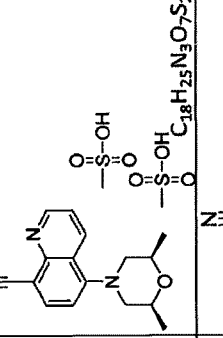
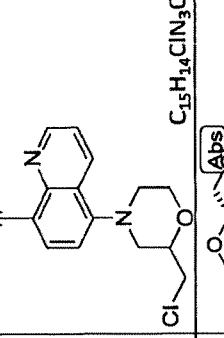
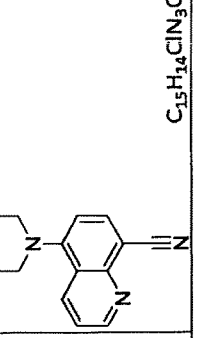
ER-878952-26	 C ₁₆ H ₁₉ N ₃ O ₄ S	349.4	0.0880	>20	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carbonitrile sulfonate	¹ H NMR (400 MHz, DMSO-d ₆) δ ppm 1.04 - 1.25 (m, 17 H) 2.44 - 2.67 (m, 8 H) 3.30 (s, 3 H) 3.27 (s, 3 H) 3.82 - 4.09 (m, 7 H) 7.12 - 7.31 (m, 3 H) 7.56 - 7.75 (m, 3 H) 8.09 - 8.33 (m, 3 H) 8.49 - 8.74 (m, 4 H) 8.98 (ddd, J=4.32, 3.00, 1.76 Hz, 20 H) 9.09 (m, 1 H)
ER-87895227	 C ₂₀ H ₂₃ N ₃ O ₇	417.4	0.1250	>20	5-((2S,6R)-2,6-dimethylmorpholino)quinoline-8-carbonitrile 2,3-dihydroxysuccinate	
ER-878952-28	 C ₁₈ H ₂₅ N ₃ O ₇ S ₂	459.5	0.1040	>20	5-((2S,6R)-2,6-dimethylmorpholino)quinoline-8-carbonitrile dimethanesulfonate	
ER-879484	 C ₁₅ H ₁₄ ClN ₃ O	287.7	0.3435	>20	5-(2-(chloromethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.20 (d, J=6.15 Hz, 1 H) 3.31 (s, 1 H) 3.64 (dd, J=5.57, 0.88 Hz, 2 H) 4.00 - 4.08 (m, 3 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.09 - 8.14 (m, 2 H)
ER-879570	 C ₁₅ H ₁₄ ClN ₃ O	287.7	0.2230	>20	(S)-5-(2-(chloromethyl)morpholino)quinoline-8-carbonitrile	

FIG. 6C

ER-879689		$C_{18}H_{20}N_4O_2$	324.4	0.3400	>20	N-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)acetamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.81 (br. s., 1 H) 1.23 - 1.28 (m, 5 H) 1.54 (s, 4 H) 2.02 - 2.06 (m, 4 H) 2.61 (s, 1 H) 2.63 (s, 1 H) 2.66 (s, 1 H) 2.69 (s, 1 H) 3.17 - 3.24 (m, 2 H) 3.26 - 3.28 (m, 1 H) 3.30 (s, 1 H) 3.60 - 3.66 (m, 1 H) 3.96 - 4.04 (m, 2 H) 5.89 (br. s., 1 H) 7.05 (d, J=7.91 Hz, 1 H) 7.24 (d, J=0.59 Hz, 4 H) 7.50 (dd, J=8.50, 4.39 Hz, 1 H) 8.01 (s, 1 H) 8.03 (s, 1 H) 8.41 (dd, J=8.50, 1.76 Hz, 1 H) 9.05 - 9.07 (m, 1 H)
ER-879713		$C_{21}H_{26}N_4O_2$	366.5	0.0920	>20	N-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)pivalamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.21 - 1.28 (m, 13 H) 2.03 - 2.11 (m, 1 H) 2.49 - 2.54 (m, 1 H) 2.60 - 2.67 (m, 2 H) 2.87 - 2.91 (m, 2 H) 3.19 - 3.33 (m, 3 H) 3.43 - 3.47 (m, 1 H) 3.60 - 3.67 (m, 1 H) 3.98 - 4.05 (m, 2 H) 6.27 (br. s., 1 H) 7.05 (d, J=7.91 Hz, 1 H) 7.23 - 7.26 (m, 2 H) 7.52 (dd, J=8.50, 4.39 Hz, 1 H) 8.03 (d, J=7.91 Hz, 1 H) 8.44 (dd, J=8.50, 1.46 Hz, 1 H) 9.07 (dd, J=4.39, 1.76 Hz, 1 H)
ER-879739		$C_{15}H_{15}N_3O$	253.3	0.2750	>20	5-(2-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.16 - 1.21 (m, 4 H) 2.67 (dd, J=12.01, 9.96 Hz, 1 H) 2.94 - 3.02 (m, 1 H) 3.29 - 3.36 (m, 2 H) 3.93 - 4.01 (m, 4 H) 7.21 (d, J=7.91 Hz, 1 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.11 (d, J=7.91 Hz, 1 H) 8.63 (dd, J=8.64, 1.61 Hz, 1 H) 8.94 (dd, J=4.39, 1.76 Hz, 1 H)
ER-880191		$C_{16}H_{17}N_3O$	267.3	0.3095	>20	5-(2-ethylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.00 (t, J=7.47 Hz, 3 H) 1.46 - 1.67 (m, 2 H) 2.05 (br. s., 4 H) 2.70 - 2.74 (m, 1 H) 3.03 (td, J=11.57, 3.22 Hz, 1 H) 3.21 - 3.31 (m, 2 H) 3.69 - 3.76 (m, 1 H) 3.96 (td, J=11.35, 2.49 Hz, 1 H) 4.04 - 4.09 (m, 1 H) 7.07 (d, J=7.91 Hz, 1 H) 7.50 (dd, J=8.50, 4.10 Hz, 1 H) 8.03 (d, J=7.91 Hz, 1 H) 8.46 (dd, J=8.50, 1.76 Hz, 1 H) 9.06 (dd, J=4.10, 1.76 Hz, 1 H)
ER-880639		$C_{16}H_{17}N_3O$	276.3	0.3490	>20	5-(2-ethylmorpholino)quinoline-8-carbonitrile	

FIG. 6D

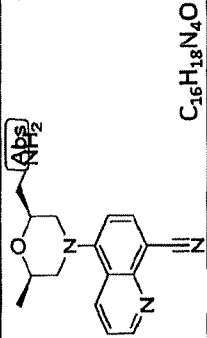
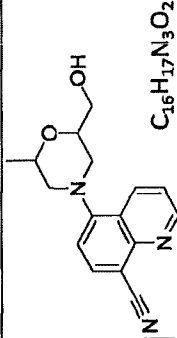
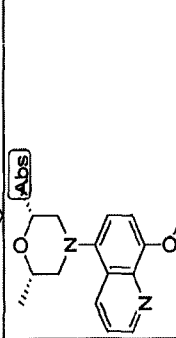
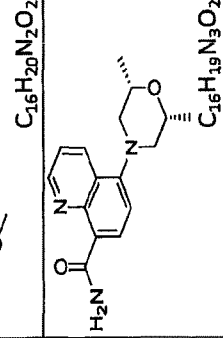
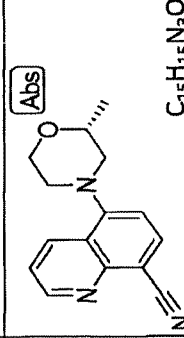
ER-884884	 $C_{16}H_{18}N_4O$	282.3	0.3060	>20	5-((2S,6R)-2-(aminomethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (d, J=6.15 Hz, 11 H) 2.63 - 2.67 (m, 2 H) 2.69 - 2.74 (m, 2 H) 2.97 (d, J=13.48 Hz, 1 H) 3.15 (s, 1 H) 3.18 (s, 1 H) 3.41 (s, 3 H) 3.37 (s, 3 H) 4.81 - 4.85 (m, 53 H) 7.24 (d, J=8.20 Hz, 3 H) 7.60 - 7.63 (m, 2 H) 8.12 (s, 1 H) 8.14 (s, 1 H) 8.60 (d, J=1.46 Hz, 1 H) 8.62 (d, J=1.46 Hz, 1 H) 8.96 (dd, J=4.10, 1.76 Hz, 2 H)	
ER-885047	 $C_{16}H_{17}N_3O_2$	283.3	0.9558	>20	5-(2-(hydroxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-885113	 $C_{16}H_{20}N_2O_2$	272.4	0.5285	>20	(2R,6S)-4-(8-methoxyquinolin-5-yl)-2,6-dimethylmorpholine		
ER-885160	 $C_{16}H_{19}N_3O_2$	285.3	2.1600	>20	5-((2R,6S)-2,6-dimethylmorpholino)quinoline-8-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.21 (6 H, d) 2.63 - 2.81 (2 H, m) 3.34 - 3.48 (2 H, m) 3.95 - 4.12 (2 H, m) 7.34 - 7.48 (1 H, m) 7.91 - 8.02 (1 H, m) 8.49 - 8.67 (1 H, m) 9.08 - 9.18 (1 H, m) 9.18 - 9.27 (1 H, m)	LCMS (ESI+) calcd for C ₁₆ H ₁₉ N ₃ O ₂ (M+H+) 286.3, found 286.3
ER-885211	 $C_{15}H_{15}N_3O$	253.3	0.0420	>20	(R)-5-(2-methylmorpholino)quinoline-8-carbonitrile		

FIG. 6E

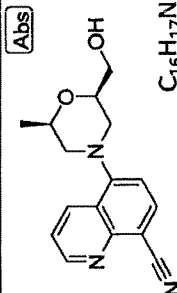
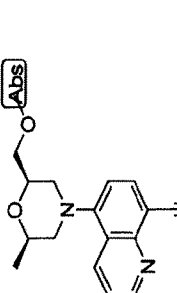
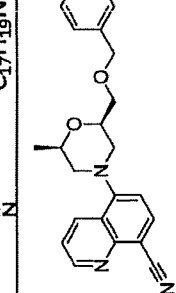
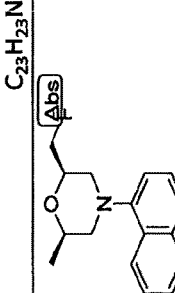
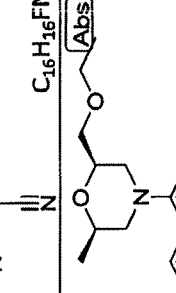
ER-885493	 C ₁₆ H ₁₇ N ₃ O ₂	283.3	0.1043	>20	5-((2R,6R)-2-(hydroxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.21 (3 H, d) 2.58 - 2.66 (1 H, m) 2.67 - 2.75 (1 H, m) 3.30 - 3.37 (1 H, m) 3.38 - 3.44 (1 H, m) 3.53 (1 H, dd) 3.63 (1 H, dd) 3.91 - 3.98 (1 H, m) 4.00 - 4.08 (1 H, m) 7.15 - 7.25 (1 H, m) 7.56 - 7.65 (1 H, m) 8.07 - 8.15 (1 H, m) 8.56 - 8.68 (1 H, m) 8.88 - 8.96 (1 H, m)	LCMS (ESI+) calcd for C ₁₆ H ₁₇ N ₃ O ₂ (M+H ⁺) 284.3, found 284.3
ER-885612	 C ₁₇ H ₁₉ N ₃ O ₂	373.5	0.2750	>20	5-((2R,6R)-2-(methoxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.22 (3 H, d) 2.62 (1 H, t) 2.82 (1 H, t) 3.30 - 3.41 (2 H, m) 3.99 - 4.27 (2 H, m) 4.41 (1 H, d) 4.53 (1 H, d) 7.18 - 7.32 (1 H, m) 7.62 (1 H, dd) 8.12 (1 H, d) 8.64 (1 H, dd) 8.89 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₁₇ H ₁₉ N ₃ O ₂ (M+H ⁺) 286.3, found 286.3
ER-885618	 C ₂₃ H ₂₃ N ₃ O ₂	373.5	0.0270	>20	5-((2R,6R)-2-(benzyloxy)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.21 (d, J=6.45 Hz, 4 H) 2.59 - 2.63 (m, 1 H) 2.65 (s, 1 H) 2.70 - 2.76 (m, 1 H) 3.30 - 3.43 (m, 3 H) 3.50 - 3.54 (m, 1 H) 3.58 - 3.63 (m, 1 H) 4.01 - 4.06 (m, 1 H) 4.08 - 4.13 (m, 1 H) 4.54 (s, 2 H) 4.82 - 4.87 (m, 7 H) 7.18 - 7.32 (m, 5 H) 7.57 - 7.61 (m, 1 H) 8.11 (d, J=7.91 Hz, 1 H) 8.58 - 8.62 (m, 1 H) 8.92 - 8.94 (m, 1 H)	
ER-885621	 C ₁₆ H ₁₆ FN ₃ O	285.3	0.1800	>20	5-((2R,6R)-2-(fluoromethyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-885807	 C ₁₈ H ₂₁ N ₃ O ₂	311.4	0.1560	>20	5-((2R,6R)-2-(ethoxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.20 (t, J=7.03 Hz, 3 H) 1.26 (d, J=6.45 Hz, 3 H) 2.00 (s, 1 H) 2.68 (s, 1 H) 2.71 (d, J=1.46 Hz, 1 H) 2.74 (s, 1 H) 2.78 (s, 1 H) 2.81 (s, 1 H) 2.84 (s, 1 H) 3.27 (d, J=12.01 Hz, 1 H) 3.38 (d, J=11.72 Hz, 1 H) 3.49 - 3.64 (m, 4 H) 4.02 - 4.14 (m, 2 H) 5.77 (br. s., 1 H) 7.14 (d, J=8.20 Hz, 1 H) 7.24 - 7.25 (m, 2 H) 7.64 (dd, J=8.50, 4.39 Hz, 1 H) 8.09 (d, J=8.20 Hz, 1 H) 8.61 (dd, J=8.50, 1.46 Hz, 1 H) 9.13 - 9.15 (m, 1 H)	

FIG. 6F

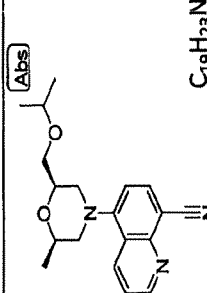
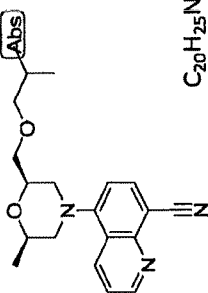
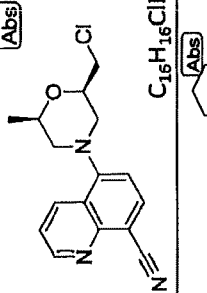
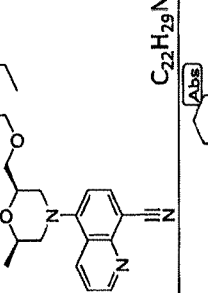
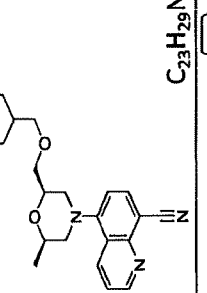
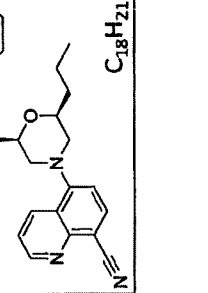
ER-885808	 $C_{19}H_{23}N_3O_2$	325.4	0.0880	>20	5-((2R,6R)-2-(isopropoxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.15 (dd, J=7.91, 6.15 Hz, 6 H) 1.25 (d, J=6.15 Hz, 3 H) 2.65 (s, 1 H) 2.68 (d, J=1.46 Hz, 1 H) 2.70 - 2.73 (m, 1 H) 2.76 (s, 1 H) 3.25 (s, 1 H) 3.28 (s, 1 H) 3.41 - 3.47 (m, 2 H) 3.59 - 3.66 (m, 3 H) 4.01 - 4.08 (m, 1 H) 7.10 (d, J=7.91 Hz, 1 H) 7.24 - 7.24 (m, 4 H) 7.54 - 7.57 (m, 1 H) 8.04 (s, 1 H) 8.06 (s, 1 H) 8.52 (dd, J=8.50, 1.76 Hz, 1 H) 9.09 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-885892	 $C_{20}H_{25}N_3O_2$	339.4	0.0740	>20	5-((2R,6R)-2-(isobutoxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.87 (d, J=6.74 Hz, 7 H) 1.25 (d, J=6.15 Hz, 4 H) 1.68 (s, 21 H) 1.81 - 1.88 (m, 1 H) 2.63 - 2.66 (m, 1 H) 2.69 - 2.74 (m, 1 H) 3.19 - 3.28 (m, 4 H) 3.41 - 3.48 (m, 3 H) 3.59 (dd, J=9.96, 4.98 Hz, 1 H) 7.05 (s, 1 H) 7.07 (s, 1 H) 7.24 (s, 6 H) 7.48 - 7.51 (m, 1 H) 8.02 (s, 1 H) 8.04 (s, 1 H) 8.45 (d, J=1.76 Hz, 1 H) 8.47 (d, J=1.76 Hz, 1 H) 9.06 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-885906	 $C_{20}H_{25}N_3O_2$	301.8	0.1980	>20	5-((2R,6R)-2-(chloromethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.27 (d, J=6.15 Hz, 7 H) 1.60 (s, 83 H) 2.67 - 2.75 (m, 2 H) 3.48 (s, 1 H) 3.51 - 3.53 (m, 2 H) 3.64 (d, J=4.69 Hz, 1 H) 7.09 (d, J=8.20 Hz, 1 H) 7.24 - 7.24 (m, 31 H) 7.50 - 7.54 (m, 1 H) 8.04 (d, J=8.20 Hz, 1 H) 8.44 (d, J=7.03 Hz, 1 H)	
ER-885929	 $C_{26}H_{35}N_3O_2$	367.5	0.2190	>20	5-((2R,6R)-2-(hexyloxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.81 - 0.87 (m, 3 H) 1.21 - 1.33 (m, 11 H) 1.51 - 1.64 (m, 3 H) 2.62 - 2.76 (m, 3 H) 3.26 (dt, J=11.72, 2.05 Hz, 1 H) 3.38 - 3.50 (m, 5 H) 3.58 (dd, J=9.96, 5.27 Hz, 1 H) 3.99 - 4.11 (m, 2 H) 7.06 (d, J=7.91 Hz, 1 H) 7.24 (s, 1 H) 7.47 - 7.51 (m, 1 H) 8.01 (d, J=8.20 Hz, 1 H) 8.45 (dd, J=8.50, 1.46 Hz, 1 H) 9.05 (dd, J=4.10, 1.47 Hz, 1 H)	
ER-885930	 $C_{22}H_{29}N_3O_2$	379.5	0.0710	>20	5-((2R,6R)-2-(cyclohexyloxymethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.83 - 0.93 (m, 2 H) 1.10 - 1.27 (m, 6 H) 1.55 - 1.73 (m, 5 H) 2.66 - 2.70 (m, 1 H) 2.73 (d, J=7.32 Hz, 1 H) 2.76 (d, J=1.17 Hz, 1 H) 2.79 (s, 1 H) 3.24 - 3.32 (m, 3 H) 3.39 - 3.52 (m, 2 H) 3.59 (dd, J=9.96, 4.98 Hz, 1 H) 3.80 (br. s., 7 H) 4.01 - 4.12 (m, 2 H) 7.11 (d, J=7.91 Hz, 1 H) 7.24 - 7.25 (m, 2 H) 7.58 (dd, J=8.79, 4.39 Hz, 1 H) 8.07 (d, J=7.91 Hz, 1 H) 8.54 - 8.57 (m, 1 H) 9.11 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-886131	 $C_{18}H_{21}N_3O$	295.4	0.1240	>20	5-((2R,6S)-2-methyl-6-propylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CDCl3-d) δ ppm 0.93 (3 H, t) 1.25 (3 H, d) 1.35 - 1.66 (4 H, m) 2.57 - 2.74 (2 H, m) 3.26 (2 H, d) 3.79 - 3.91 (1 H, m) 3.92 - 4.05 (1 H, m) 6.99 - 7.14 (1 H, m) 7.49 - 7.59 (1 H, m) 7.98 - 8.12 (1 H, m) 8.43 - 8.53 (1 H, m) 9.02 - 9.14 (1 H, m)	LCMS (ESI+) calcd for C18 H21 N3 O (M+H+) 296.3, found 296.1

FIG. 6G

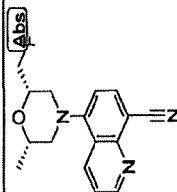
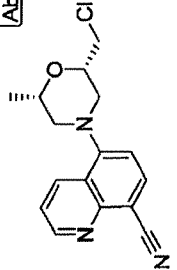
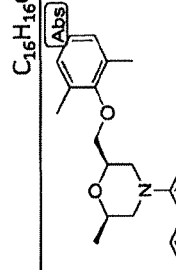
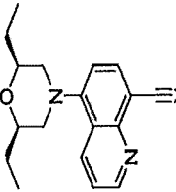
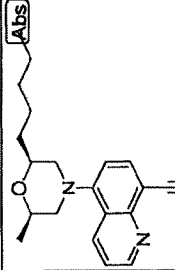
ER-886133	 $C_{16}H_{16}FN_3O$	285.3	0.3410	>20	5-((2S,6S)-2-(fluoromethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.27 (d, J=6.45 Hz, 4 H) 1.67 (br s, 9 H) 2.64 (s, 1 H) 2.67 (d, J=1.76 Hz, 1 H) 2.69 (s, 1 H) 2.72 (s, 1 H) 2.75 (d, J=1.46 Hz, 1 H) 2.78 (s, 1 H) 3.26 (t, J=2.05 Hz, 1 H) 3.29 (t, J=2.05 Hz, 1 H) 3.48 - 3.55 (m, 3 H) 3.65 (dd, J=11.43, 4.98 Hz, 1 H) 4.04 - 4.14 (m, 2 H) 7.09 (d, J=8.20 Hz, 1 H) 7.24 (s, 4 H) 7.50 - 7.54 (m, 1 H) 8.03 (s, 1 H) 8.05 (s, 1 H) 8.44 (dd, J=8.50, 1.76 Hz, 1 H) 9.07 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-886134	 $C_{16}H_{16}ClN_3O$	301.8	0.2700	>20	5-((2S,6S)-2-(chloromethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.23 - 1.29 (m, 6 H) 1.55 (s, 9 H) 2.26 (s, 7 H) 2.68 (d, J=11.13 Hz, 1 H) 2.72 (s, 1 H) 2.82 (d, J=11.43 Hz, 1 H) 2.86 (s, 1 H) 3.29 (s, 1 H) 3.32 (s, 1 H) 3.47 - 3.53 (m, 1 H) 3.55 (s, 1 H) 3.91 - 3.95 (m, 1 H) 4.07 - 4.16 (m, 2 H) 4.25 - 4.29 (m, 1 H) 6.52 (s, 2 H) 6.60 (s, 1 H) 7.07 (s, 1 H) 7.09 (s, 1 H) 7.24 (d, J=0.88 Hz, 5 H) 7.49 - 7.53 (m, 1 H) 8.02 (s, 1 H) 8.04 (s, 1 H) 8.45 - 8.48 (m, 1 H) 9.07 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-886137	 $C_{24}H_{25}N_3O_2$	387.5	0.2500	>20	5-((2R,6R)-2-((2,6-dimethylphenoxy)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.99 - 1.03 (m, 7 H) 1.47 - 1.57 (m, 2 H) 1.59 - 1.66 (m, 2 H) 2.61 (s, 1 H) 2.64 (s, 1 H) 2.67 (s, 1 H) 3.27 (s, 1 H) 3.30 (s, 1 H) 3.71 - 3.77 (m, 2 H) 7.06 (s, 1 H) 7.08 (s, 1 H) 7.24 - 7.24 (m, 6 H) 7.51 (dd, J=8.50, 4.10 Hz, 1 H) 8.02 (s, 1 H) 8.04 (s, 1 H) 8.45 - 8.48 (m, 1 H) 9.07 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-886211	 $C_{18}H_{21}N_3O$	295.4	2.7795	>20	5-((2R,6S)-2,6-diethylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.99 - 1.03 (m, 7 H) 1.47 - 1.57 (m, 2 H) 1.59 - 1.66 (m, 2 H) 2.61 (s, 1 H) 2.64 (s, 1 H) 2.67 (s, 1 H) 3.27 (s, 1 H) 3.30 (s, 1 H) 3.71 - 3.77 (m, 2 H) 7.06 (s, 1 H) 7.08 (s, 1 H) 7.24 - 7.24 (m, 6 H) 7.51 (dd, J=8.50, 4.10 Hz, 1 H) 8.02 (s, 1 H) 8.04 (s, 1 H) 8.45 - 8.48 (m, 1 H) 9.07 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-886212	 $C_{20}H_{25}N_3O$	323.4	0.2410	>20	5-((2R,6S)-2-methyl-6-pentylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CDCl ₃ -d) δ ppm 0.88 (3 H, t) 1.25 (3 H, d) 1.28 - 1.35 (3 H, m) 1.39 - 1.53 (2 H, m) 1.54 - 1.65 (1 H, m) 2.60 - 2.69 (2 H, m) 2.73 - 2.83 (2 H, m) 3.19 - 3.33 (2 H, m) 3.76 - 3.88 (1 H, m) 3.93 - 4.06 (1 H, m) 7.00 - 7.14 (1 H, m) 7.48 - 7.61 (1 H, m) 7.98 - 8.10 (1 H, m) 8.38 - 8.56 (1 H, m) 9.00 - 9.13 (1 H, m)	LCMS (ESI+) calcd for C ₂₀ H ₂₅ N ₃ O (M+H ⁺) 324.4, found 324.5

FIG. 6H

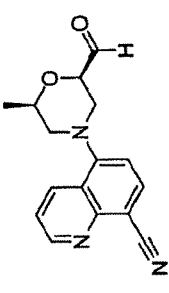
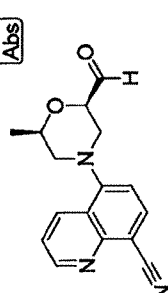
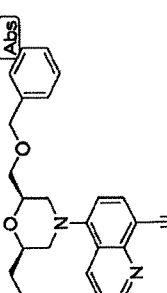
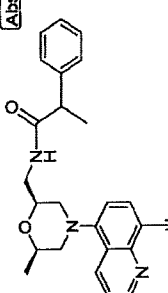
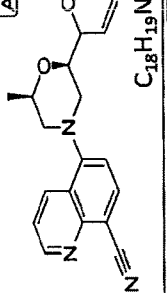
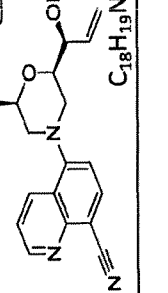
ER-886250	 <chem>C16H15N3O2</chem>	281.3	0.1860	>10.0	5-((2R,6R)-2-formyl-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CDCl ₃ -d) 1.35 (3 H, d) 2.65 - 2.85 (2 H, m) 3.24 (1 H, d) 3.58 (1 H, d) 4.09 - 4.014 (1 H, m) 4.50 (1 H, d) 7.11 (1 H, d) 7.53 (1 H, d) 8.05 (1 H, d) 8.53 (1 H, d) 9.08 (1 H, s) 9.75 (1 H, s)	
ER-886250	 <chem>C16H15N3O2</chem>	309.4	0.1670	>20	5-((2R,6R)-2-formyl-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.37(d, 3 H) 2.64 - 2.88 (m, 2 H) 3.33 (dt, J=11.96, 2.14 Hz, 1 H) 3.56 (dt, J=11.96, 2.46 Hz, 1 H) 4.06 - 4.22 (m, 1 H) 4.40 (dd, J=10.79, 2.88 Hz, 1 H) 7.07 - 7.18 (m, 1 H) 7.50 - 7.61 (m, 1 H) 8.00 - 8.14 (m, 1 H) 8.46 (dd, J=8.65, 1.82 Hz, 1 H) 9.05 - 9.15 (m, 1 H) 9.73 (s, 1 H)	
ER-886355	 <chem>C16H15N3O2</chem>	387.5	0.0250	>20	5-((2R,6R)-2-((benzyloxy)methyl)-6-ethylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.97 - 1.01 (m, 8 H) 1.52 - 1.65 (m, 20 H) 2.62 - 2.66 (m, 1 H) 2.68 - 2.76 (m, 1 H) 3.27 (s, 1 H) 3.30 (s, 1 H) 3.39 (s, 1 H) 3.42 (s, 1 H) 3.51 (dd, J=9.96, 5.86 Hz, 2 H) 3.64 (dd, J=10.25, 4.98 Hz, 2 H) 4.57 (s, 5 H) 5.28 (s, 3 H) 7.05 (s, 1 H) 7.07 (s, 1 H) 7.23 - 7.27 (m, 19 H) 7.29 - 7.33 (m, 8 H) 7.49 (dd, J=8.50, 4.39 Hz, 2 H) 8.01 (s, 1 H) 8.03 (s, 1 H) 8.44 (dd, J=8.79, 1.76 Hz, 2 H) 9.05 - 9.06 (m, 1 H)	
ER-886360	 <chem>C24H25N3O2</chem>	414.5	0.3710	>20	N-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)-2-phenylpropanamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.15 - 1.18 (m, 4 H) 1.43 (dd, J=7.03, 3.81 Hz, 1 H) 1.51 - 1.57 (m, 5 H) 2.42 (s, 1 H) 2.45 (s, 1 H) 2.55 (s, 1 H) 2.58 (s, 1 H) 3.16 - 3.23 (m, 2 H) 3.62 (s, 1 H) 6.94 (s, 1 H) 6.96 (s, 1 H) 7.02 (s, 1 H) 7.04 (s, 1 H) 7.26 - 7.37 (m, 12 H) 7.50 - 7.53 (m, 1 H) 8.02 - 8.05 (m, 1 H) 8.39 - 8.42 (m, 1 H) 9.07 - 9.09 (m, 1 H)	
ER-886418	 <chem>C18H19N3O2</chem>	387.5	0.2770	>20	5-((2R,6R)-2-(1-hydroxyallyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.30 (d, 3 H) 2.57 - 2.72 (m, 1 H) 2.80 (t, J=11.32 Hz, 1 H) 3.30 (d, 2 H) 3.77 - 3.90 (m, 1 H) 4.02 - 4.19 (m, 2 H) 5.23 - 5.34 (m, 1 H) 5.35 - 5.47 (m, 1 H) 5.83 - 5.99 (m, 1 H) 7.09 (d, J=7.90 Hz, 1 H) 7.48 - 7.60 (m, 1 H) 8.00 - 8.12 (m, 1 H) 8.43 (dd, J=8.55, 1.71 Hz, 1 H) 9.09 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C18H19N3O2 (M+H+): 310.15, found: 310.16
ER-886431	 <chem>C18H19N3O2</chem>	387.5	0.2070	>20	5-((2R,6R)-2-(1-hydroxyallyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.30 (d, 3 H) 2.57 - 2.72 (m, 1 H) 2.80 (t, J=11.32 Hz, 1 H) 3.30 (d, 2 H) 3.77 - 3.90 (m, 1 H) 4.02 - 4.19 (m, 2 H) 5.23 - 5.34 (m, 1 H) 5.35 - 5.47 (m, 1 H) 5.83 - 5.99 (m, 1 H) 7.09 (d, J=7.90 Hz, 1 H) 7.48 - 7.60 (m, 1 H) 8.00 - 8.12 (m, 1 H) 8.43 (dd, J=8.55, 1.71 Hz, 1 H) 9.09 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C18H19N3O2 (M+H+): 310.15, found: 310.16

FIG. 61

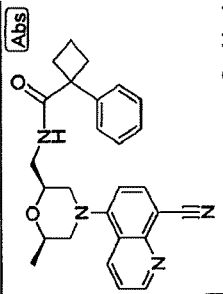
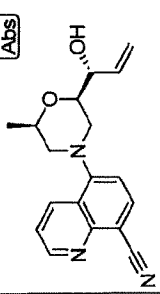
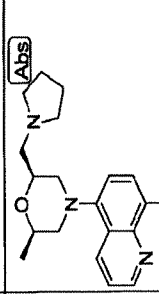
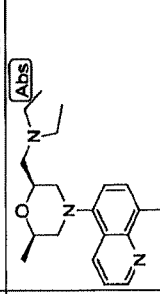
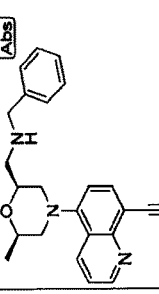
ER-886432	 C ₂₇ H ₂₈ N ₄ O ₂	440.5	0.3050	>20	N-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)-1-phenylcyclobutanecarboxamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.81 - 0.88 (m, 1 H) 1.10 (d, J=6.15 Hz, 4 H) 1.22 - 1.29 (m, 2 H) 1.62 (br. s., 1 H) 1.84 - 1.93 (m, 1 H) 2.08 - 2.16 (m, 1 H) 2.31 - 2.38 (m, 2 H) 2.40 - 2.56 (m, 2 H) 2.72 - 2.80 (m, 1 H) 2.83 - 2.90 (m, 1 H) 3.07 - 3.14 (m, 2 H) 3.22 - 3.29 (m, 1 H) 3.37 - 3.44 (m, 1 H) 3.80 - 3.88 (m, 2 H) 5.57 - 5.62 (m, 1 H) 6.90 (d, J=7.91 Hz, 1 H) 7.21 - 7.26 (m, 2 H) 7.28 - 7.37 (m, 4 H) 7.47 (dd, J=8.50, 4.10 Hz, 1 H) 7.99 (d, J=7.91 Hz, 1 H) 8.35 (dd, J=8.50, 1.46 Hz, 1 H) 9.04 (dd, J=4.10, 1.46 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₇ H ₂₈ N ₄ O ₂ (M+H+): 310.15, found: 310.14
ER-886480	 C ₂₇ H ₂₈ N ₄ O ₂	309.4	0.2070	>20	5-((2R,6R)-2-((R)-1-hydroxyallyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.29 (d, 3 H) 2.23 (d, J=3.85 Hz, 1 H) 2.65 (dd, J=11.75, 10.25 Hz, 1 H) 2.91 (dd, J=11.96, 10.47 Hz, 1 H) 3.23 - 3.39 (m, 2 H) 3.94 (ddd, J=10.47, 4.27, 2.35 Hz, 1 H) 4.02 - 4.13 (m, 1 H) 4.28 - 4.41 (m, 1 H) 5.27 (dt, J=10.68, 1.50 Hz, 1 H) 5.41 (dt, J=17.09, 1.50 Hz, 1 H) 5.95 (ddd, J=17.30, 10.68, 5.77 Hz, 1 H) 7.09 (d, J=8.12 Hz, 1 H) 7.48 - 7.58 (m, 1 H) 8.05 (d, J=7.90 Hz, 1 H) 8.44 (dd, J=8.55, 1.71 Hz, 1 H) 9.08 (dd, J=4.27, 1.71 Hz, 1 H)	
ER-886507	 C ₃₆ H ₄₀ N ₆ O ₂	336.4	0.0750	13.287	5-((2R,6S)-2-methyl-6-(pyrrolidin-1-yl)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.28 (d, J=6.15 Hz, 4 H) 1.99 - 2.07 (m, 2 H) 2.15 (d, J=4.10 Hz, 2 H) 2.65 - 2.79 (m, 2 H) 3.12 - 3.25 (m, 3 H) 3.30 - 3.42 (m, 5 H) 3.67 - 3.74 (m, 2 H) 4.11 - 4.17 (m, 1 H) 4.29 - 4.35 (m, 1 H) 4.83 - 4.86 (m, 6 H) 7.24 (d, J=7.91 Hz, 1 H) 7.57 - 7.63 (m, 1 H) 8.13 (d, J=7.91 Hz, 1 H) 8.63 (dd, J=8.50, 1.76 Hz, 1 H) 8.96 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-886508	 C ₂₀ H ₂₄ N ₄ O	338.5	0.1200	14.481	5-((2S,6R)-2-((diethylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 - 1.36 (m, 21 H) 2.65 - 2.75 (m, 3 H) 3.29 - 3.41 (m, 14 H) 4.81 - 4.85 (m, 12 H) 7.25 (d, J=8.20 Hz, 2 H) 7.62 (dd, J=8.50, 4.10 Hz, 1 H) 8.13 (d, J=7.91 Hz, 1 H) 8.62 - 8.65 (m, 1 H) 8.93 - 8.97 (m, 2 H)	
ER-886509	 C ₂₃ H ₂₄ N ₄ O	372.5	0.0440	3.94	5-((2S,6R)-2-((benzylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.28 (d, J=6.45 Hz, 4 H) 2.64 - 2.72 (m, 2 H) 2.74 - 2.79 (m, 1 H) 3.07 - 3.13 (m, 1 H) 3.22 (d, J=2.93 Hz, 2 H) 3.34 - 3.41 (m, 2 H) 4.09 - 4.13 (m, 1 H) 4.22 - 4.30 (m, 3 H) 4.82 - 4.85 (m, 9 H) 7.23 (d, J=8.20 Hz, 1 H) 7.43 - 7.50 (m, 5 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.12 (d, J=8.20 Hz, 1 H) 8.57 - 8.61 (m, 1 H) 8.94 - 8.96 (m, 1 H)	

FIG. 6J

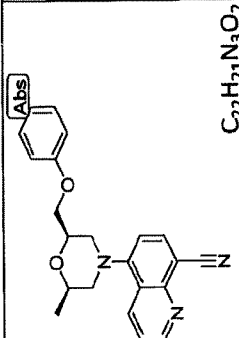
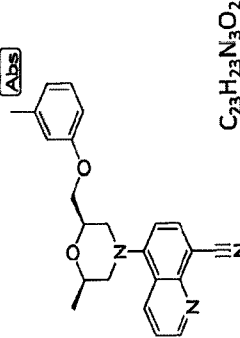
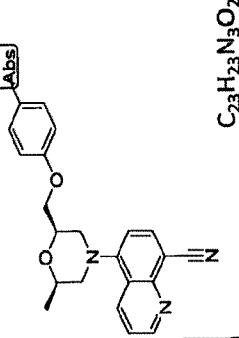
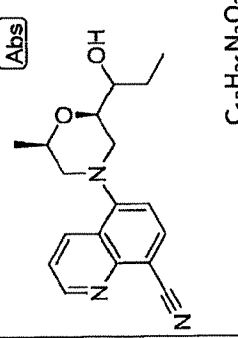
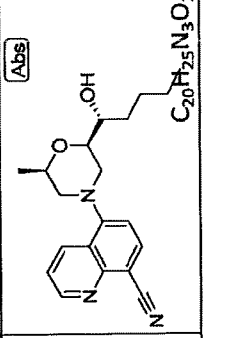
ER-886514		359.4	0.0030	>20	5-((2R,6R)-2-methyl-6-(phenoxymethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.29 (d, J=6.15 Hz, 3 H) 1.96 (br s, 9 H) 2.68 (s, 1 H) 2.71 (d, J=1.76 Hz, 1 H) 2.74 (s, 1 H) 2.84 - 2.90 (m, 1 H) 3.29 - 3.30 (m, 1 H) 3.33 (t, J=2.05 Hz, 1 H) 3.52 - 3.54 (m, 1 H) 3.56 (s, 1 H) 3.98 (dd, J=9.67, 6.74 Hz, 1 H) 4.10 (ddd, J=10.25, 6.45, 2.34 Hz, 1 H) 4.17 (dd, J=9.67, 4.69 Hz, 1 H) 4.28 - 4.32 (m, 1 H) 6.88 - 6.91 (m, 2 H) 6.93 - 6.98 (m, 1 H) 7.10 (d, J=7.91 Hz, 1 H) 7.24 - 7.29 (m, 6 H) 7.53 (dd, J=8.50, 4.39 Hz, 1 H) 8.04 (d, J=7.91 Hz, 1 H) 8.49 (dd, J=8.50, 1.76 Hz, 1 H) 9.08 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-886515		373.5	0.0360	>20	5-((2R,6R)-2-methyl-6-((m-tolyl)oxymethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.29 (d, J=6.15 Hz, 3 H) 1.90 (br s, 9 H) 2.30 (s, 3 H) 2.68 (s, 1 H) 2.70 (d, J=1.76 Hz, 1 H) 2.73 (s, 1 H) 2.82 - 2.86 (m, 1 H) 2.88 (s, 1 H) 3.29 (t, J=2.05 Hz, 1 H) 3.32 (s, 1 H) 3.48 - 3.53 (m, 1 H) 3.55 - 3.56 (m, 1 H) 3.93 - 3.98 (m, 1 H) 4.07 - 4.12 (m, 1 H) 4.16 (dd, J=9.67, 4.69 Hz, 1 H) 4.27 - 4.31 (m, 1 H) 6.68 - 6.73 (m, 2 H) 6.74 Hz, 1 H) 4.18 (d, J=4.69 Hz, 1 H) 4.16 (d, J=4.69 Hz, 1 H) 4.30 (s, 1 H) 6.80 - 6.83 (m, 2 H) 7.07 - 7.11 (m, 2 H) 7.13 (s, 1 H) 7.54 (dd, J=8.50, 4.10 Hz, 1 H) 8.05 (s, 1 H) 8.07 (s, 1 H) 8.48 (d, J=1.76 Hz, 1 H) 8.50 (d, J=1.76 Hz, 1 H) 9.09 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-886516		373.5	0.0180	>20	5-((2R,6R)-2-methyl-6-(p-tolyl)oxymethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.31 (d, J=6.15 Hz, 3 H) 1.58 (s, 6 H) 2.29 (s, 3 H) 2.70 (s, 1 H) 2.73 (d, J=1.76 Hz, 1 H) 2.75 (s, 1 H) 2.85 (s, 1 H) 2.87 (d, J=1.46 Hz, 1 H) 2.90 (s, 1 H) 3.31 - 3.33 (m, 1 H) 3.34 - 3.35 (m, 1 H) 3.50 (s, 1 H) 3.55 (t, J=2.05 Hz, 1 H) 3.57 - 3.59 (m, 1 H) 3.97 (dd, J=9.67, 6.74 Hz, 1 H) 4.18 (d, J=4.69 Hz, 1 H) 4.16 (d, J=4.69 Hz, 1 H) 4.30 (s, 1 H) 6.80 - 6.83 (m, 2 H) 7.07 - 7.11 (m, 2 H) 7.13 (s, 1 H) 7.54 (dd, J=8.50, 4.10 Hz, 1 H) 8.05 (s, 1 H) 8.07 (s, 1 H) 8.48 (d, J=1.76 Hz, 1 H) 8.50 (d, J=1.76 Hz, 1 H) 9.09 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-886520		311.4	0.2150	>20	5-((2R,6R)-2-(1-hydroxypropyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.04 (t, J=7.37 Hz, 3 H) 1.23 - 1.33 (m, 3 H) 1.44 (m, 2 H) 2.02 (d, 1 H) 2.64 (dd, J=11.96, 10.25 Hz, 1 H) 2.83 - 3.01 (m, 1 H) 3.24 - 3.43 (m, 2 H) 3.73 (dd, J=8.55, 4.27 Hz, 1 H) 3.76 - 3.90 (m, 1 H) 3.97 - 4.15 (m, 1 H) 7.06 - 7.15 (m, 1 H) 7.47 - 7.57 (m, 1 H) 8.00 - 8.11 (m, 1 H) 8.46 (dd, J=8.55, 1.71 Hz, 1 H) 9.01 - 9.14 (m, 1 H)	LCMS (ESI+) calcd for C18H21N3O2 (M+H+): 312.17, found: 312.2
ER-886530		339.4	0.0440	>20	5-((2R,6R)-2-((R)-1-hydroxypropyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.83 - 1.01 (m, 3 H) 1.20 - 1.30 (m, 3 H) 1.30 - 1.42 (m, 3 H) 1.44 - 1.60 (m, 3 H) 2.09 (d, J=3.42 Hz, 1 H) 2.63 (dd, J=11.75, 10.25 Hz, 1 H) 2.94 (dd, J=11.86, 10.15 Hz, 1 H) 3.20 - 3.44 (m, 2 H) 3.71 - 3.89 (m, 2 H) 3.99 - 4.14 (m, 1 H) 7.10 (d, J=7.90 Hz, 1 H) 7.51 (dd, J=8.55, 4.27 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.46 (dd, J=8.65, 1.82 Hz, 1 H) 9.07 (dd, J=4.06, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C20H25N3O2 (M+H+): 340.20, found: 340.18

FIG. 6K

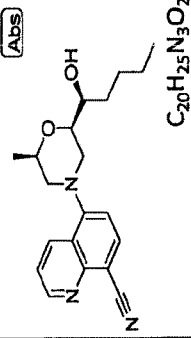
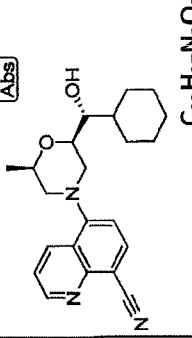
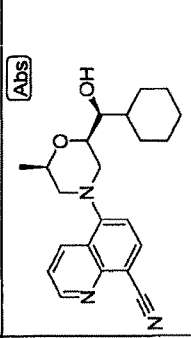
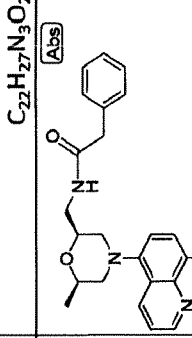
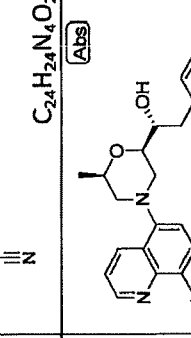
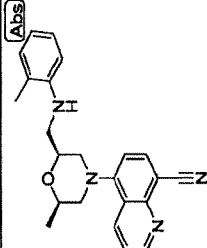
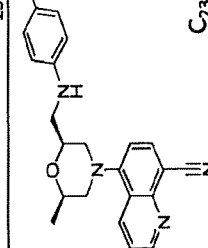
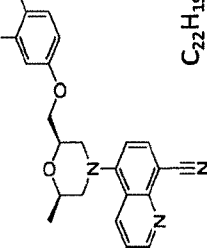
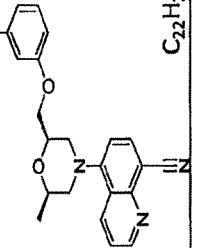
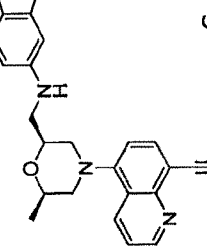
ER-886531		339.4	0.1930	>20	5-((2R,6R)-2-((S)-1-hydroxyethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.82 - 0.97 (m, 3 H) 1.21 - 1.28 (m, 3 H) 1.29 - 1.48 (m, 3 H) 1.50 - 1.55 (m, 3 H) 2.59 - 2.70 (m, 1 H) 2.89 (dd, J=11.75, 10.47 Hz, 1 H) 3.21 - 3.34 (m, 2 H) 3.57 (m, 1 H) 3.72 - 3.86 (m, 1 H) 4.00 - 4.13 (m, 1 H) 7.05 - 7.15 (m, 1 H) 7.45 - 7.57 (m, 1 H) 7.99 - 8.10 (m, 1 H) 8.46 (dd, J=8.55, 1.71 Hz, 1 H) 9.04 - 9.17 (m, 1 H)	LCMS (ESI+) calcd for C20H25N3O2 (M+H+): 340.20, found: 340.26
ER-886532		365.5	0.0690	>20	5-((2R,6R)-2-((R)-cyclohexylmethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.98 - 1.37 (m, 6 H) 1.27 (d, 3 H) 1.47 - 1.72 (m, 2 H) 1.73 - 1.85 (m, 2 H) 2.02 (m, 1 H) 2.27 (d, 1 H) 2.63 (dd, J=11.96, 10.25 Hz, 1 H) 2.91 - 3.03 (m, 1 H) 3.25 - 3.41 (m, 2 H) 3.56 (ddd, J=7.42, 4.54, 3.20 Hz, 1 H) 3.95 (ddd, J=10.31, 4.75, 2.24 Hz, 1 H) 4.01 - 4.17 (m, 1 H) 7.06 - 7.15 (m, 1 H) 7.46 - 7.56 (m, 1 H) 8.06 (d, J=8.12 Hz, 1 H) 8.41 - 8.52 (m, 1 H) 9.01 - 9.13 (m, 1 H)	LCMS (ESI+) calcd for C22H27N3O2 (M+H+): 366.21, found: 366.22
ER-886533		365.5	0.0780	>20	5-((2R,6R)-2-((S)-cyclohexylmethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.07 - 1.37 (m, 6 H) 1.28 (d, 3 H) 1.41 - 1.56 (m, 1 H) 1.62 - 1.74 (m, 2 H) 1.79 (br. s., 2 H) 1.87 (d, J=8.33 Hz, 1 H) 2.28 (d, J=6.20 Hz, 1 H) 2.63 (dd, J=11.96, 10.25 Hz, 1 H) 2.98 (dd, J=11.54, 10.47 Hz, 1 H) 3.16 - 3.35 (m, 3 H) 3.96 (ddd, J=10.31, 4.65, 2.35 Hz, 1 H) 4.00 - 4.15 (m, 1 H) 7.05 - 7.15 (m, 1 H) 7.47 - 7.56 (m, 1 H) 8.06 (d, J=7.90 Hz, 1 H) 8.39 - 8.52 (m, 1 H) 9.00 - 9.15 (m, 1 H)	LCMS (ESI+) calcd for C22H27N3O2 (M+H+): 366.21, found: 366.24
ER-886563		400.5	0.2100	>20	N-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)-2-phenylacetamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.14 (d, J=6.15 Hz, 3 H) 2.40 (br. s., 5 H) 2.48 (s, 1 H) 2.50 (s, 1 H) 2.53 (d, J=2.05 Hz, 1 H) 2.57 (d, J=11.43 Hz, 1 H) 3.18 - 3.24 (m, 3 H) 3.54 - 3.60 (m, 1 H) 3.64 (s, 2 H) 3.91 - 3.96 (m, 2 H) 5.99 (s, 1 H) 7.00 (s, 1 H) 7.02 (s, 1 H) 7.23 - 7.28 (m, 6 H) 7.31 - 7.38 (m, 2 H) 7.51 (dd, J=8.50, 4.39 Hz, 1 H) 8.01 (s, 1 H) 8.03 (s, 1 H) 8.40 (dd, J=8.50, 1.76 Hz, 1 H) 9.07 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-886564		373.5	0.1020		5-((2R,6R)-2-((R)-1-hydroxy-2-phenylethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.30 (d, J=6.41 Hz, 3 H) 2.38 (d, J=5.77 Hz, 1 H) 2.65 (dd, J=11.96, 10.25 Hz, 1 H) 2.84 - 2.94 (m, 1 H) 2.94 - 3.06 (m, 2 H) 3.15 - 3.33 (m, 2 H) 3.73 - 3.93 (m, 2 H) 3.95 - 4.12 (m, 1 H) 7.06 (d, J=8.12 Hz, 1 H) 7.23 - 7.29 (m, 3 H) 7.29 - 7.36 (m, 2 H) 7.49 (dd, J=8.55, 4.06 Hz, 1 H) 8.02 (d, J=7.90 Hz, 1 H) 8.38 (dd, J=8.55, 1.71 Hz, 1 H) 9.06 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C23H23N3O2 (M+H+): 374.18, found: 374.16

FIG. 6M

ER-886603		372.5	0.0110	>20	5-((2R,6S)-2-methyl-6-(p-tolylamino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.32 (d, J=5.57 Hz, 4 H) 2.39 (s, 3 H) 2.68 (d, J=12.01 Hz, 1 H) 2.74 (d, J=13.48 Hz, 1 H) 2.78 (s, 1 H) 2.81 (s, 1 H) 3.38 - 3.45 (m, 4 H) 3.53 (d, J=3.22 Hz, 1 H) 3.57 (d, J=3.52 Hz, 1 H) 4.09 (d, J=4.69 Hz, 1 H) 4.17 (s, 1 H) 4.85 (s, 9 H) 7.20 - 7.25 (m, 3 H) 7.28 - 7.33 (m, 2 H) 7.57 - 7.60 (m, 1 H) 8.12 (d, J=7.32 Hz, 1 H) 8.57 (d, J=8.50 Hz, 1 H) 8.94 (d, J=4.39 Hz, 1 H)
ER-886604		372.5	0.0860	>20	5-((2R,6S)-2-methyl-6-(p-tolylamino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.33 (d, J=6.15 Hz, 4 H) 2.38 (s, 4 H) 2.66 - 2.80 (m, 3 H) 3.34 - 3.41 (m, 2 H) 3.47 - 3.57 (m, 3 H) 4.04 - 4.16 (m, 2 H) 7.23 (d, J=8.20 Hz, 1 H) 7.34 - 7.40 (m, 4 H) 7.56 - 7.60 (m, 1 H) 8.11 (d, J=8.20 Hz, 1 H) 8.56 (dd, J=8.50, 1.76 Hz, 1 H) 8.92 - 8.94 (m, 1 H)
ER-886605		395.4	0.0220		5-((2R,6R)-2-((3,4-difluorophenyl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.23 (d, J=6.45 Hz, 4 H) 2.66 (dd, J=11.72, 10.25 Hz, 1 H) 2.88 (dd, J=11.72, 10.55 Hz, 1 H) 3.39 (s, 1 H) 3.36 (s, 1 H) 3.49 (s, 1 H) 3.46 (s, 1 H) 3.99 - 4.13 (m, 4 H) 4.25 - 4.31 (m, 1 H) 4.82 - 4.86 (m, 4 H) 6.68 - 6.74 (m, 1 H) 6.85 - 6.91 (m, 1 H) 7.08 - 7.16 (m, 1 H) 7.24 (d, J=8.20 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.61 - 8.65 (m, 1 H) 8.94 (dd, J=4.39, 1.76 Hz, 1 H)
ER-886606		377.4	0.0030	>20	5-((2R,6R)-2-((3-fluorophenyl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 (3 H, d) 2.68 (1 H, t) 2.88 (1 H, t) 3.38 (1 H, d) 3.49 (1 H, d) 3.99 - 4.14 (3 H, m) 4.25 - 4.36 (1 H, m) 6.59 - 6.80 (3 H, m) 7.17 - 7.30 (2 H, m) 7.58 - 7.65 (1 H, m) 8.08 - 8.18 (1 H, m) 8.58 - 8.69 (1 H, m) 8.90 - 8.99 (1 H, m)
ER-886608		426.5	0.0130	3.366	5-((2S,6R)-2-((1,2-dimethyl-5-benzodimidazol-5-ylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 (d, J=6.15 Hz, 4 H) 2.62 - 2.68 (m, 1 H) 2.72 (s, 3 H) 2.77 - 2.84 (m, 1 H) 3.29 - 3.39 (m, 4 H) 3.46 (d, J=12.01 Hz, 1 H) 3.86 (s, 3 H) 4.08 (d, J=6.74 Hz, 1 H) 4.16 (d, J=7.62 Hz, 1 H) 4.80 (s, 1 H) 6.78 (d, J=2.05 Hz, 1 H) 6.95 - 6.98 (m, 1 H) 7.22 (s, 1 H) 7.49 (d, J=8.79 Hz, 1 H) 7.55 - 7.58 (d, J=8.20 Hz, 1 H) 7.49 (d, J=8.79 Hz, 1 H) 7.55 - 7.58 (m, 1 H) 8.11 (d, J=7.91 Hz, 1 H) 8.56 - 8.59 (m, 1 H) 8.92 - 8.94 (m, 1 H)

LCMS (ESI+) calcd for C₂₂H₂₀F N₃ O₂ (M+H⁺) 378.4, found 378.5

FIG. 6N

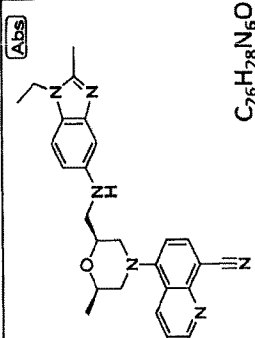
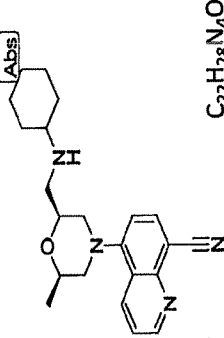
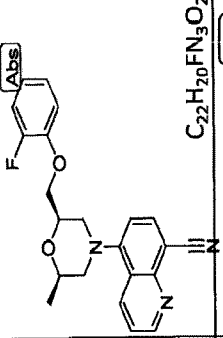
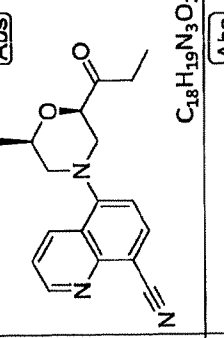
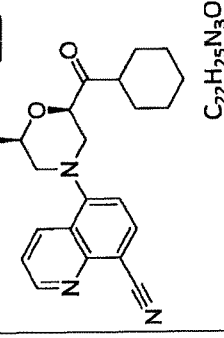
ER-886609	 C ₂₆ H ₂₈ N ₆ O	440.6	0.0120	6.929	5-((2S,6R)-2-((1-ethyl-2-methyl-1H-benzotriazol-5-ylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.26 - 1.28 (m, 3 H) 1.31 - 1.40 (m, 4 H) 1.70 (d, J=12.89 Hz, 1 H) 1.87 (d, J=8.20 Hz, 2 H) 2.11 (br. s., 2 H) 2.64 - 2.71 (m, 1 H) 2.73 - 2.77 (m, 1 H) 3.07 - 3.15 (m, 2 H) 3.22 (br. s., 1 H) 3.41 (s, 1 H) 3.38 (s, 1 H) 4.09 - 4.13 (m, 1 H) 4.22 (t, J=9.96 Hz, 1 H) 4.84 - 4.85 (m, 8 H) 7.24 (dd, J=7.91, 2.34 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.12 - 8.15 (m, 1 H) 8.59 - 8.63 (m, 1 H) 8.95 - 8.97 (m, 1 H)	
ER-886611	 C ₂₂ H ₂₈ N ₄ O	364.5	0.1070	8.112	5-((2S,6R)-2-((cyclohexylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 (dd, J=6.15, 0.88 Hz, 5 H) 2.67 (d, J=10.84 Hz, 1 H) 2.87 - 2.90 (m, 1 H) 2.92 (s, 1 H) 3.37 (s, 1 H) 3.40 (s, 1 H) 3.53 (s, 1 H) 3.56 (s, 1 H) 4.06 - 4.10 (m, 1 H) 4.16 - 4.20 (m, 1 H) 4.83 - 4.85 (m, 17 H) 7.03 - 7.11 (m, 3 H) 7.24 (s, 1 H) 7.26 (s, 1 H) 7.60 - 7.63 (m, 1 H) 8.12 (d, J=0.88 Hz, 1 H) 8.14 (d, J=0.88 Hz, 1 H) 8.63 (s, 1 H) 8.65 (s, 1 H) 8.94 - 8.96 (m, 1 H)	
ER-886624	 C ₂₂ H ₂₀ FN ₃ O ₂	377.4	0.0027	>20	5-((2R,6R)-2-((2-fluorophenoxy)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.02 - 1.16 (m, 3 H) 1.33 (d, J=6.20 Hz, 3 H) 2.58 - 2.86 (m, 5 H) 3.30 (dt, J=11.96, 2.14 Hz, 1 H) 3.62 (dt, J=12.02, 2.43 Hz, 1 H) 4.01 - 4.16 (m, 1 H) 4.37 (dd, J=10.58, 2.67 Hz, 1 H) 7.10 (d, J=8.12 Hz, 1 H) 7.53 (dd, J=8.65, 4.17 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.46 (dd, J=8.65, 1.82 Hz, 1 H) 9.08 (dd, J=4.06, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₁₈ H ₁₉ N ₃ O ₂ (M+H+): 310.15, found: 310.14
ER-886625	 C ₁₈ H ₁₉ N ₃ O ₂	309.4	0.1570	>20	5-((2R,6R)-2-methyl-6-propionylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.02 - 1.16 (m, 3 H) 1.33 (d, J=6.20 Hz, 3 H) 2.58 - 2.86 (m, 5 H) 3.30 (dt, J=11.96, 2.14 Hz, 1 H) 3.62 (dt, J=12.02, 2.43 Hz, 1 H) 4.01 - 4.16 (m, 1 H) 4.37 (dd, J=10.58, 2.67 Hz, 1 H) 7.10 (d, J=8.12 Hz, 1 H) 7.53 (dd, J=8.65, 4.17 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.46 (dd, J=8.65, 1.82 Hz, 1 H) 9.08 (dd, J=4.06, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₁₈ H ₁₉ N ₃ O ₂ (M+H+): 310.15, found: 310.14
ER-886626	 C ₂₂ H ₂₅ N ₃ O ₂	363.5	0.0730	>20	5-((2R,6R)-2-(cyclohexylmethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.15 - 1.44 (m, 9 H) 1.71 (d, J=11.54 Hz, 1 H) 1.75 - 1.90 (m, 2 H) 1.90 - 2.03 (m, 1 H) 2.68 (dd, J=11.96, 10.25 Hz, 1 H) 2.79 (dd, J=12.18, 10.68 Hz, 1 H) 2.90 - 3.11 (m, 1 H) 3.31 (dt, J=11.91, 2.06 Hz, 1 H) 3.61 (dt, J=12.07, 2.30 Hz, 1 H) 4.08 (ddd, J=10.15, 6.30, 2.14 Hz, 1 H) 4.44 (dd, J=10.58, 2.67 Hz, 1 H) 7.11 (d, J=7.90 Hz, 1 H) 7.53 (dd, J=8.55, 4.27 Hz, 1 H) 8.06 (d, J=7.90 Hz, 1 H) 8.46 (dd, J=8.55, 1.71 Hz, 1 H) 9.09 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₂ H ₂₅ N ₃ O ₂ (M+H+): 364.20, found: 365.32

FIG. 60

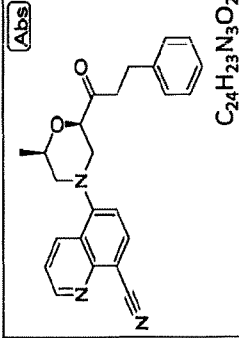
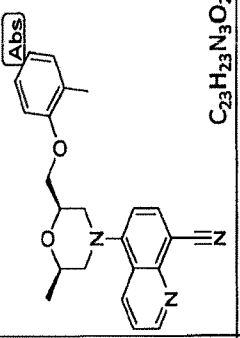
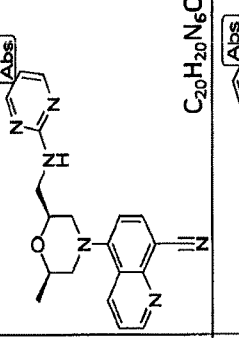
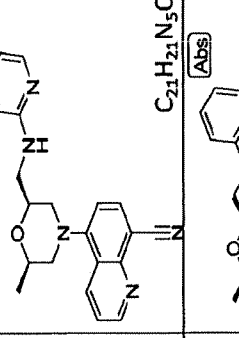
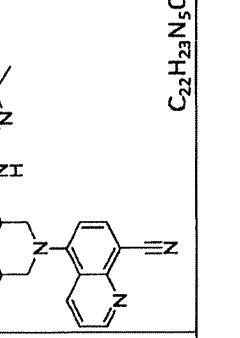
ER-886629	 <chem>Cc1cc(C(=O)CCc2ccccc2)nc(C1CCN(C1)c2cc3c(cc2)ncn3C#N)c4ccccc4</chem> $C_{24}H_{23}N_3O_2$	385.5	0.1930	>20	5-((2R,6R)-2-methyl-6-(3-phenylpropanoyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.32 (d, $J=6.41$ Hz, 3 H) 2.56 - 2.79 (m, 2 H) 2.88 - 2.98 (m, 2 H) 3.01 - 3.12 (m, 2 H) 3.29 (dt, $J=11.96, 2.14$ Hz, 1 H) 3.58 (dt, $J=11.96, 2.35$ Hz, 1 H) 3.97 - 4.15 (m, 1 H) 4.35 (dd, $J=10.47, 2.78$ Hz, 1 H) 7.07 (d, $J=7.90$ Hz, 1 H) 7.15 - 7.38 (m, 5 H) 7.53 (dd, $J=8.55, 4.27$ Hz, 1 H) 8.05 (d, $J=7.90$ Hz, 1 H) 8.44 (dd, $J=8.65, 1.82$ Hz, 1 H) 9.09 (dd, $J=4.27, 1.71$ Hz, 1 H)	LCMS (ESI+) calcd for $C_{24}H_{23}N_3O_2$ (M+H+): 386.18, found: 386.15
ER-886786	 <chem>Cc1ccc(OCc2cc3c(cc2)ncn3C#N)cc1</chem> $C_{23}H_{23}N_3O_2$	373.5	0.0090	>2.0	5-((2R,6R)-2-methyl-6-((o-tolylxy)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.29 (d, $J=6.15$ Hz, 4 H) 1.99 (s, 1 H) 2.03 - 2.13 (m, 2 H) 2.17 (s, 4 H) 2.72 (dd, $J=11.72, 10.25$ Hz, 1 H) 2.82 - 2.88 (m, 1 H) 3.30 - 3.34 (m, 1 H) 3.61 - 3.65 (m, 1 H) 3.93 - 3.98 (m, 1 H) 4.07 - 4.14 (m, 1 H) 4.17 - 4.21 (m, 1 H) 4.30 - 4.37 (m, 1 H) 6.80 - 6.88 (m, 2 H) 7.07 - 7.16 (m, 3 H) 7.24 (s, 1 H) 7.48 - 7.52 (m, 1 H) 8.04 (d, $J=7.91$ Hz, 1 H) 8.48 (dd, $J=8.50, 1.76$ Hz, 1 H) 9.07 (dd, $J=4.39, 1.76$ Hz, 1 H)	
ER-886787	 <chem>Cc1cc2c(cc1)ncn2C#N</chem> $C_{20}H_{20}N_6O$	360.4	0.0229	>2.0	5-((2R,6S)-2-methyl-6-((pyrimidin-2-ylamino)methyl)morpholino)quinoline-8-carbonitrile		
ER-886788	 <chem>Cc1ccncc1</chem> $C_{21}H_{21}N_5O$	359.4	0.0060	>2.0	5-((2R,6S)-2-methyl-6-((pyridin-2-ylamino)methyl)morpholino)quinoline-8-carbonitrile		
ER-886789	 <chem>Cc1cc(C)nc(C1CCN(C1)c2cc3c(cc2)ncn3C#N)c4ccccc4</chem> $C_{22}H_{23}N_5O$	373.5	0.0070	>2.0	5-((2R,6S)-2-methyl-6-(((6-methylpyridin-2-yl)amino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.15 (d, $J=6.15$ Hz, 7 H) 2.66 - 2.71 (m, 9 H) 2.94 (d, $J=11.72$ Hz, 1 H) 3.31 (s, 1 H) 4.84 - 4.85 (m, 61 H) 6.83 (d, $J=6.74$ Hz, 1 H) 6.96 (d, $J=8.20$ Hz, 1 H) 7.28 (s, 1 H) 7.30 (s, 1 H) 7.61 - 7.65 (m, 2 H) 7.73 (d, $J=8.79$ Hz, 1 H) 8.15 (s, 1 H) 8.17 (s, 1 H) 8.65 (s, 1 H) 8.67 (s, 1 H) 8.97 (d, $J=2.64$ Hz, 1 H)	

FIG. 6P

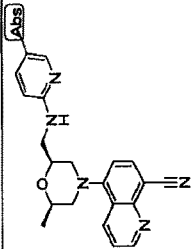
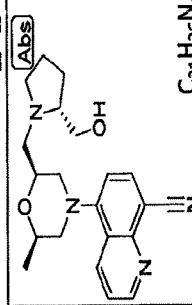
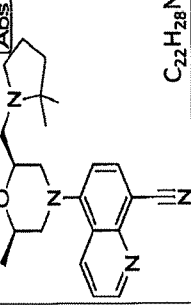
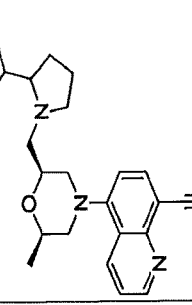
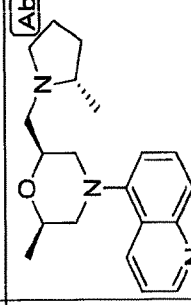
ER-886790		373.5	0.0085	>2.0	5-((2R,6S)-2-methyl-6-(((5-methylpyridin-2-yl)amino)methyl)morpholino)quinoline-8-carbonitrile	
ER-886814		366.5	0.0720	>2.0	5-((2S,6R)-2-(((R)-2-(hydroxymethyl)pyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-886815		364.5	0.3950	>2.0	5-((2R,6R)-2-((2,2-dimethylpyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-886816		378.5	0.1970	>2.0	5-((2S,6R)-2-((2-isopropylpyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.02 - 1.17 (m, 7 H) 1.28 - 1.34 (m, 4 H) 1.86 - 1.96 (m, 1 H) 2.04 - 2.28 (m, 4 H) 2.68 - 2.80 (m, 2 H) 3.26 - 3.51 (m, 8 H) 3.52 - 3.60 (m, 1 H) 3.73 - 3.81 (m, 1 H) 4.11 - 4.21 (m, 1 H) 4.35 - 4.44 (m, 1 H) 4.85 - 4.91 (m, 8 H) 7.23 - 7.28 (m, 1 H) 7.65 (dd, J=8.50, 4.10 Hz, 1 H) 8.15 (d, J=7.62 Hz, 1 H) 8.64 - 8.69 (m, 1 H) 8.98 (dd, J=4.10, 1.46 Hz, 1 H)
ER-886817		350.5	0.0600	>2.0	5-((2R,6S)-2-methyl-6-(((S)-2-methylpyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.26 - 1.34 (m, 4 H) 1.48 (d, J=6.74 Hz, 3 H) 1.71 - 1.77 (m, 1 H) 1.98 - 2.14 (m, 3 H) 2.29 - 2.38 (m, 2 H) 2.67 - 2.81 (m, 4 H) 3.19 - 3.26 (m, 1 H) 3.33 (s, 1 H) 3.38 - 3.46 (m, 4 H) 3.52 (dd, J=13.48, 2.34 Hz, 1 H) 3.61 - 3.68 (m, 1 H) 3.81 - 3.88 (m, 1 H) 4.11 - 4.17 (m, 1 H) 4.32 - 4.39 (m, 1 H) 7.26 (d, J=7.91 Hz, 1 H) 7.61 - 7.65 (m, 1 H) 8.15 (d, J=7.91 Hz, 1 H) 8.63 - 8.67 (m, 1 H) 8.95 - 8.98 (m, 1 H)

FIG. 6Q

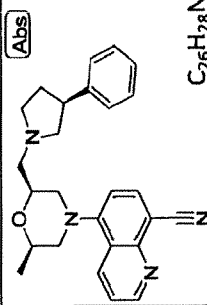
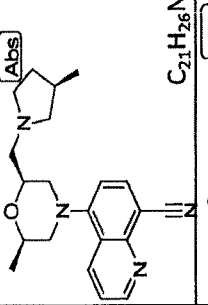
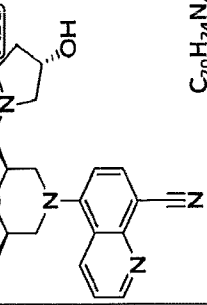
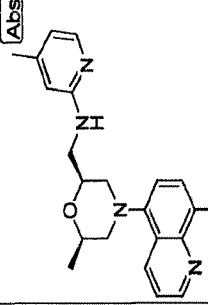
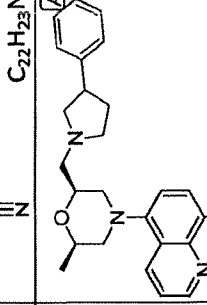
ER-886818		412.5	0.0800	>2.0	5-((2R,6S)-2-methyl-6-(((S)-3-phenylpyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.08 - 1.25 (m, 4 H) 1.30 (d, J=6.15 Hz, 4 H) 1.73 - 1.78 (m, 1 H) 2.66 - 2.82 (m, 3 H) 3.32 - 3.48 (m, 6 H) 4.02 - 4.24 (m, 1 H) 4.24 - 4.40 (m, 1 H) 7.26 (d, J=8.20 Hz, 1 H) 7.63 (dd, J=8.50, 4.39 Hz, 1 H) 8.06 - 8.23 (m, 1 H) 8.57 - 8.73 (m, 1 H) 8.97 (dd, J=4.39, 1.76 Hz, 1 H)
ER-886819		350.5	0.0360	>2.0	5-((2R,6S)-2-methyl-6-(((R)-3-methylpyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	
ER-886820		352.4	0.0626	>2.0	5-((2S,6R)-2-(((S)-3-hydroxypyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.28 (d, J=6.15 Hz, 4 H) 1.96 - 2.07 (m, 1 H) 2.12 (d, J=4.39 Hz, 1 H) 2.32 (t, J=6.20 Hz, 1 H) 2.64 - 2.79 (m, 4 H) 3.20 (d, J=12.31 Hz, 1 H) 3.29 - 3.54 (m, 7 H) 3.58 (d, J=11.72 Hz, 1 H) 3.75 - 3.89 (m, 2 H) 4.09 - 4.17 (m, 1 H) 4.35 (br. s., 1 H) 4.55 (d, J=15.23 Hz, 1 H) 4.81 - 4.87 (m, 7 H) 7.22 (d, J=8.20 Hz, 1 H) 7.57 - 7.62 (m, 1 H) 8.11 (d, J=7.91 Hz, 1 H) 8.61 (d, J=8.50 Hz, 1 H) 8.91 - 8.95 (m, 1 H)
ER-886853		373.5	0.0040	>2	5-((2R,6S)-2-methyl-6-(((4-methylpyridin-2-yl)amino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.13 - 1.21 (m, 3 H) 2.34 - 2.39 (m, 3 H) 2.67 (dd, J=12.01, 10.25 Hz, 1 H) 2.76 - 2.83 (m, 1 H) 3.36 (d, J=12.01 Hz, 1 H) 3.53 (d, J=11.72 Hz, 1 H) 3.99 (ddd, J=10.25, 6.15, 2.34 Hz, 1 H) 4.21 - 4.37 (m, 3 H) 4.82 - 4.86 (m, 5 H) 6.76 (dd, J=7.03, 1.76 Hz, 1 H) 6.86 (s, 1 H) 7.22 - 7.27 (m, 1 H) 7.58 - 7.63 (m, 1 H) 7.79 (d, J=7.03 Hz, 1 H) 8.10 - 8.14 (m, 1 H) 8.60 - 8.65 (m, 1 H) 8.92 - 8.96 (m, 1 H)
ER-886854		412.5	0.0190	>2	5-((2R,6S)-2-methyl-6-((3-phenylpyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 - 1.31 (m, 4 H) 2.50 - 2.53 (m, 1 H) 2.65 - 2.78 (m, 2 H) 3.24 (br. s., 1 H) 3.29 - 3.32 (m, 1 H) 3.41 (s, 1 H) 3.38 (s, 1 H) 3.44 - 3.54 (m, 3 H) 3.54 - 3.64 (m, 1 H) 3.73 (br. s., 1 H) 3.82 - 3.96 (m, 1 H) 3.99 - 4.09 (m, 1 H) 4.15 (br. s., 1 H) 4.37 (br. s., 1 H) 4.81 - 4.85 (m, 5 H) 7.22 - 7.31 (m, 2 H) 7.31 - 7.37 (m, 4 H) 7.61 (d, J=4.10 Hz, 1 H) 8.13 (d, J=7.91 Hz, 1 H) 8.60 - 8.65 (m, 1 H) 8.95 (br. s., 1 H)

FIG. 6R

ER-886855		389.5	0.0260	>2	5-((2S,6R)-2-((6-methoxypyridin-3-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.21 - 1.26 (m, 3 H) 2.60 - 2.67 (m, 1 H) 2.76 - 2.83 (m, 1 H) 3.29 - 3.43 (m, 5 H) 3.99 - 4.17 (m, 5 H) 4.83 - 4.87 (m, 5 H) 7.18 - 7.23 (m, 2 H) 7.59 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 7.68 (d, <i>J</i> =2.64 Hz, 1 H) 7.76 - 7.81 (m, 1 H) 8.08 - 8.12 (m, 1 H) 8.56 - 8.61 (m, 1 H) 8.86 - 8.99 (m, 1 H)
ER-886856		350.5	0.0760	>2	5-((2R,6S)-2-methyl-6-(((R)-2-methylpyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.19 - 1.37 (m, 4 H) 1.37 - 1.53 (m, 3 H) 1.67 - 1.85 (m, 1 H) 2.01 - 2.20 (m, 2 H) 2.20 - 2.39 (m, 1 H) 2.58 - 2.86 (m, 3 H) 3.14 (d, <i>J</i> =12.89 Hz, 1 H) 3.33 - 3.59 (m, 5 H) 3.69 - 3.90 (m, 1 H) 4.04 - 4.22 (m, 1 H) 4.34 (t, <i>J</i> =10.25 Hz, 1 H) 7.14 - 7.30 (m, 1 H) 7.61 (ddd, <i>J</i> =8.50, 4.39, 0.88 Hz, 1 H) 8.12 (dd, <i>J</i> =8.20, 0.88 Hz, 1 H) 8.63 (dd, <i>J</i> =8.50, 1.46 Hz, 1 H) 8.86 - 9.07 (m, 1 H)
ER-886857		364.5	0.1030	>2	5-((2S,6R)-2-((2,5-dimethylpyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.21 - 1.30 (m, 4 H) 1.34 - 1.37 (m, 1 H) 1.46 - 1.51 (m, 5 H) 1.73 - 1.86 (m, 2 H) 2.23 - 2.32 (m, 2 H) 2.60 - 2.79 (m, 2 H) 3.24 - 3.45 (m, 6 H) 3.54 - 3.66 (m, 1 H) 3.69 - 3.84 (m, 2 H) 4.04 - 4.17 (m, 1 H) 4.33 - 4.41 (m, 1 H) 4.86 (s, 4 H) 7.19 - 7.25 (m, 1 H) 7.58 - 7.63 (m, 1 H) 8.09 - 8.13 (m, 1 H) 8.60 - 8.65 (m, 1 H) 8.92 - 8.96 (m, 1 H)
ER-886858		389.5	0.0080	>2	5-((2S,6R)-2-((4-methoxypyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.15 - 1.22 (m, 3 H) 2.65 (d, <i>J</i> =10.55 Hz, 1 H) 2.69 (s, 1 H) 2.75 - 2.82 (m, 1 H) 3.37 (s, 1 H) 3.34 (s, 1 H) 3.52 (d, <i>J</i> =11.43 Hz, 1 H) 3.92 - 4.02 (m, 4 H) 4.16 - 4.23 (m, 1 H) 4.26 - 4.34 (m, 2 H) 6.42 (d, <i>J</i> =2.64 Hz, 1 H) 6.53 - 6.56 (m, 1 H) 7.23 - 7.27 (m, 1 H) 7.59 - 7.70 (m, 1 H) 7.79 (d, <i>J</i> =7.62 Hz, 1 H) 8.11 - 8.15 (m, 1 H) 8.61 - 8.65 (m, 1 H) 8.94 - 8.97 (m, 1 H)
ER-886859		389.5	0.0810	>2	5-((2S,6R)-2-((6-methoxypyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.21 - 1.25 (m, 3 H) 2.66 (dd, <i>J</i> =12.01, 10.25 Hz, 1 H) 2.76 - 2.82 (m, 1 H) 3.34 - 3.51 (m, 3 H) 3.56 (d, <i>J</i> =3.81 Hz, 1 H) 3.59 (d, <i>J</i> =3.81 Hz, 1 H) 3.96 - 3.98 (m, 3 H) 4.07 - 4.12 (m, 1 H) 4.18 (dd, <i>J</i> =6.74, 4.39 Hz, 1 H) 4.83 - 4.85 (m, 7 H) 6.27 (d, <i>J</i> =7.91 Hz, 1 H) 6.52 (d, <i>J</i> =8.50 Hz, 1 H) 7.23 (d, <i>J</i> =7.91 Hz, 1 H) 7.58 - 7.62 (m, 1 H) 7.74 - 7.79 (m, 1 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.61 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.95 (dd, <i>J</i> =4.10, 1.76 Hz, 1 H)

FIG. 6S

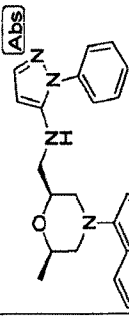
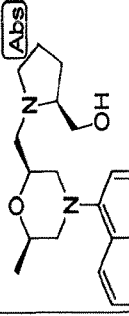
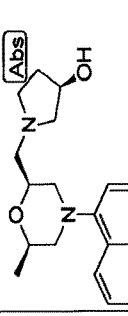
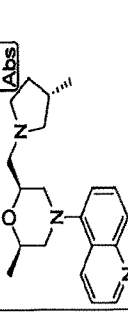
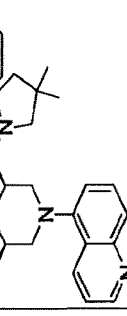
ER-886860		424.5	0.3280	>2	5-((2R,6S)-2-methyl-6-(((1-phenyl-1H-pyrazol-5-yl)amino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.23 (d, <i>J</i> =6.45 Hz, 3 H) 2.52 - 2.59 (m, 1 H) 3.13 (s, 1 H) 3.16 (s, 1 H) 3.32 - 3.35 (m, 1 H) 3.98 - 4.08 (m, 3 H) 4.85 - 4.87 (m, 12 H) 6.02 (d, <i>J</i> =3.52 Hz, 1 H) 7.17 (d, <i>J</i> =7.91 Hz, 1 H) 7.58 - 7.63 (m, 2 H) 7.72 - 7.76 (m, 2 H) 8.11 (d, <i>J</i> =7.91 Hz, 1 H) 8.19 (d, <i>J</i> =3.52 Hz, 1 H) 8.50 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.97 (dd, <i>J</i> =4.39, 1.76 Hz, 1 H)
ER-886866		366.5	0.1160	>2	5-((2S,6R)-2-((S)-2-(hydroxymethyl)pyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.25 - 1.29 (m, 3 H) 1.85 - 1.94 (m, 1 H) 2.00 - 2.26 (m, 3 H) 2.64 - 2.77 (m, 2 H) 3.26 - 3.40 (m, 14 H) 3.59 - 3.71 (m, 2 H) 3.74 - 3.83 (m, 2 H) 3.87 - 3.92 (m, 1 H) 4.09 - 4.17 (m, 1 H) 4.32 - 4.39 (m, 1 H) 4.82 (s, 1 H) 4.87 (d, <i>J</i> =0.88 Hz, 11 H) 7.20 - 7.24 (m, 1 H) 7.58 - 7.62 (m, 1 H) 8.08 - 8.12 (m, 1 H) 8.60 - 8.64 (m, 1 H) 8.92 - 8.95 (m, 1 H)
ER-886867		352.4	0.0870	>2	5-((2S,6R)-2-((F)-3-hydroxypyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-886868		350.5	0.0370	>2	5-((2R,6S)-2-methyl-6-(((S)-3-methylpyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.12 - 1.21 (m, 3 H) 1.28 (d, <i>J</i> =6.15 Hz, 3 H) 2.65 - 2.76 (m, 2 H) 3.30 - 3.49 (m, 5 H) 3.75 - 3.81 (m, 1 H) 4.10 - 4.16 (m, 1 H) 4.82 - 4.85 (m, 5 H) 7.24 (d, <i>J</i> =7.91 Hz, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.13 (d, <i>J</i> =8.20 Hz, 1 H) 8.62 (d, <i>J</i> =8.50 Hz, 1 H) 8.94 - 8.97 (m, 1 H)
ER-886869		364.5	0.0310	>2	5-((2S,6R)-2-((3,3-dimethylpyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.19 - 1.29 (m, 9 H) 1.86 - 1.93 (m, 1 H) 1.95 - 1.99 (m, 1 H) 2.65 - 2.74 (m, 2 H) 2.96 - 3.05 (m, 1 H) 3.08 (s, 1 H) 3.30 - 3.52 (m, 7 H) 3.75 - 3.81 (m, 1 H) 4.10 - 4.15 (m, 1 H) 4.32 (d, <i>J</i> =8.20 Hz, 1 H) 4.83 - 4.85 (m, 5 H) 7.24 (d, <i>J</i> =8.20 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.11 - 8.14 (m, 1 H) 8.62 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.94 - 8.96 (m, 1 H)

FIG. 6T

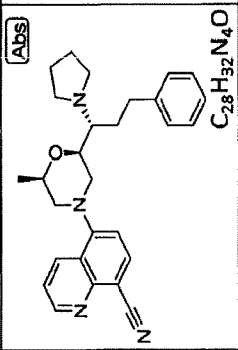
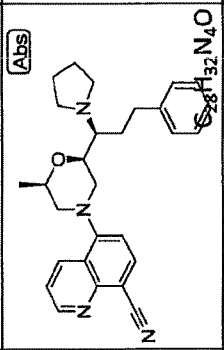
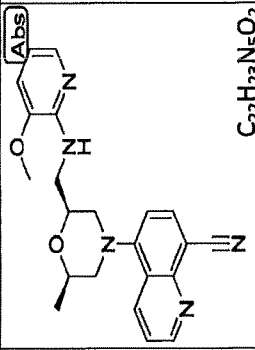
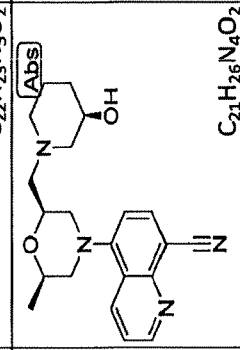
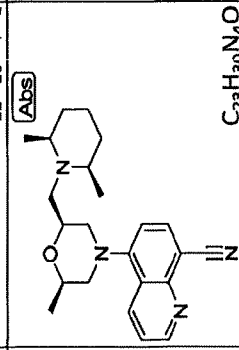
ER-886912		440.6	0.6480	5-((2R,6R)-2-methyl-6-((R)-3-phenyl-1-(pyrrolidin-1-yl)propyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.21 - 1.32 (m, 5 H) 1.72 (d, J=5.77 Hz, 4 H) 1.85 - 1.98 (m, 2 H) 2.59 (t, J=2.83 Hz, 6 H) 3.28 (d, J=12.18 Hz, 1 H) 3.46 - 3.55 (m, 1 H) 3.98 (br. s., 2 H) 7.07 (t, J=7.16 Hz, 1 H) 7.14 - 7.34 (m, 5 H) 7.49 (dt, J=8.92, 4.62 Hz, 1 H) 8.04 (d, J=8.12 Hz, 1 H) 8.45 (d, J=8.55 Hz, 1 H) 9.03 - 9.11 (m, 1 H)	LCMS (ESI+) calcd for C ₂₈ H ₃₂ N ₄ O (M+H ⁺): 441.26, found: 441.33
ER-886913		440.6	1.8930	5-((2R,6R)-2-methyl-6-((S)-3-phenyl-1-(pyrrolidin-1-yl)propyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.16 (d, J=6.15 Hz, 4 H) 2.67 (dd, J=12.01, 10.25 Hz, 1 H) 2.78 - 2.85 (m, 1 H) 3.36 (d, J=12.01 Hz, 1 H) 3.54 (d, J=11.43 Hz, 1 H) 3.96 - 4.03 (m, 5 H) 4.34 - 4.43 (m, 3 H) 4.82 - 4.86 (m, 7 H) 6.82 - 6.86 (m, 1 H) 7.26 (d, J=8.20 Hz, 1 H) 7.36 (d, J=7.62 Hz, 1 H) 7.52 - 7.55 (m, 1 H) 7.62 (dd, J=8.50, 4.10 Hz, 1 H) 8.14 (d, J=8.20 Hz, 1 H) 8.64 (dd, J=8.50, 1.76 Hz, 1 H) 8.94 - 8.97 (m, 1 H)	
ER-886948		389.5	0.0030	5-((2S,6R)-2-(((3-methoxypyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.23 - 1.29 (m, 4 H) 1.69 (br. s., 1 H) 1.72 - 1.87 (m, 2 H) 2.63 - 2.76 (m, 2 H) 3.13 (br. s., 1 H) 3.16 - 3.26 (m, 3 H) 3.30 - 3.45 (m, 4 H) 3.70 (d, J=12.31 Hz, 1 H) 4.16 (br. s., 1 H) 4.40 (d, J=8.96 Hz, 1 H) 4.81 - 4.85 (m, 7 H) 7.24 (d, J=7.62 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.13 (d, J=7.91 Hz, 1 H) 8.59 - 8.64 (m, 1 H) 8.96 (d, J=4.39 Hz, 1 H)	
ER-886949		366.5	0.1450	5-((2S,6R)-2-(((R)-3-hydroxypiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.23 - 1.28 (m, 3 H) 1.34 - 1.36 (m, 2 H) 1.38 - 1.42 (m, 3 H) 1.47 (d, J=5.57 Hz, 1 H) 1.61 - 1.68 (m, 1 H) 1.80 (s, 1 H) 2.62 - 2.71 (m, 1 H) 2.74 (s, 1 H) 2.76 - 2.82 (m, 1 H) 3.05 - 3.11 (m, 1 H) 3.34 (d, J=14.65 Hz, 1 H) 3.42 (s, 1 H) 3.38 (s, 1 H) 3.46 - 3.56 (m, 1 H) 4.11 (d, J=9.67 Hz, 1 H) 4.84 (d, J=1.17 Hz, 12 H) 7.25 (d, J=7.91 Hz, 1 H) 7.62 (dd, J=8.79, 4.39 Hz, 1 H) 8.14 (d, J=7.91 Hz, 1 H) 8.60 - 8.64 (m, 1 H) 8.95 - 8.97 (m, 1 H)	
ER-886950		378.5	0.7360	5-((2S,6R)-2-(((2R,6S)-2,6-dimethylpiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		

FIG. 6U

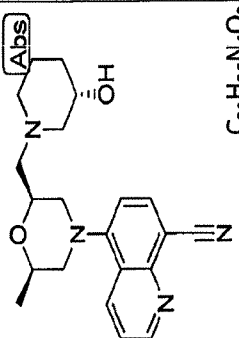
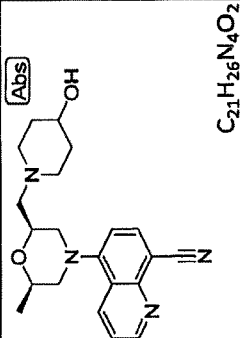
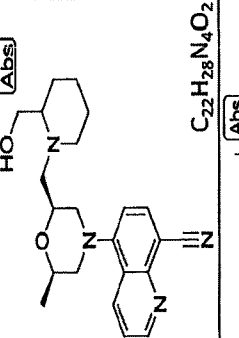
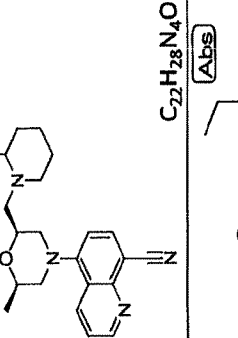
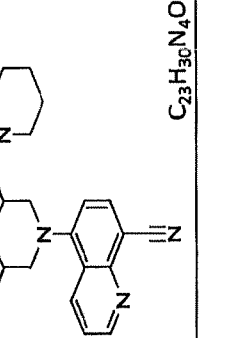
ER-886951	 C ₂₁ H ₂₆ N ₄ O ₂	366.5	0.6320	5-((2S,6R)-2-((S)-3-hydroxypiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.28 (d, J=6.45 Hz, 1 H) 3.22 (s, 7 H) 3.38 (s, 1 H) 4.81 - 4.85 (m, 1.15 H) 7.25 (d, J=8.20 Hz, 2 H) 7.62 (dd, J=8.50, 4.10 Hz, 2 H) 8.14 (d, J=8.20 Hz, 2 H) 8.63 (d, J=7.03 Hz, 1 H) 8.95 (s, 1 H)
ER-886953	 C ₂₁ H ₂₆ N ₄ O ₂	366.5	0.0930	5-((2S,6R)-2-((4-hydroxypiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (d, J=6.15 Hz, 3 H) 1.70 - 1.84 (m, 1 H) 1.86 - 2.14 (m, 2 H) 2.63 - 2.75 (m, 2 H) 3.07 - 3.16 (m, 1 H) 3.20 - 3.26 (m, 1 H) 3.29 - 3.40 (m, 5 H) 3.44 - 3.51 (m, 1 H) 3.67 (d, J=7.91 Hz, 1 H) 3.80 - 3.86 (m, 1 H) 4.05 - 4.17 (m, 2 H) 4.37 - 4.47 (m, 1 H) 4.86 (s, 1 H) 4.89 - 4.92 (m, 4 H) 7.21 (d, J=7.91 Hz, 1 H) 7.56 - 7.61 (m, 1 H) 8.09 (d, J=7.91 Hz, 1 H) 8.50 (d, J=8.50 Hz, 1 H) 8.93 (d, J=4.10 Hz, 1 H)
ER-886955	 C ₂₁ H ₂₆ N ₄ O ₂	380.5	0.1840	5-((2S,6R)-2-((2-(hydroxymethyl)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.22 - 1.29 (m, 4 H) 1.58 - 1.72 (m, 2 H) 1.75 - 1.95 (m, 5 H) 2.63 - 2.79 (m, 2 H) 3.20 - 3.25 (m, 1 H) 3.29 - 3.42 (m, 4 H) 3.46 - 3.59 (m, 1 H) 3.61 - 3.74 (m, 2 H) 3.89 - 3.93 (m, 1 H) 4.08 - 4.16 (m, 1 H) 4.43 - 4.49 (m, 1 H) 4.82 - 4.85 (m, 6 H) 7.22 - 7.26 (m, 1 H) 7.59 - 7.63 (m, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.60 - 8.64 (m, 1 H) 8.95 (d, J=4.39 Hz, 1 H)
ER-886957	 C ₂₂ H ₂₈ N ₄ O ₂	364.5	0.0500	5-((2R,6S)-2-methyl-6-((2-methylpiperidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 - 1.35 (m, 5 H) 1.39 - 1.45 (m, 2 H) 1.60 - 1.65 (m, 1 H) 1.82 (d, J=13.48 Hz, 1 H) 1.93 (br. s., 1 H) 2.63 - 2.79 (m, 2 H) 3.13 - 3.26 (m, 2 H) 3.29 - 3.51 (m, 5 H) 3.76 (d, J=12.89 Hz, 1 H) 4.11 - 4.16 (m, 1 H) 4.30 - 4.42 (m, 1 H) 4.85 (s, 5 H) 7.25 (d, J=7.91 Hz, 1 H) 7.62 (dd, J=8.50, 4.10 Hz, 1 H) 8.13 (d, J=7.91 Hz, 1 H) 8.61 - 8.66 (m, 1 H) 8.96 (dd, J=4.39, 1.76 Hz, 1 H)
ER-886958	 C ₂₃ H ₃₀ N ₄ O	378.5	0.0840	5-((2S,6R)-2-((2-ethylpiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.98 - 1.04 (m, 3 H) 1.24 - 1.29 (m, 3 H) 1.57 - 1.69 (m, 1 H) 1.73 - 1.96 (m, 3 H) 2.64 - 2.79 (m, 2 H) 3.08 - 3.26 (m, 2 H) 3.29 - 3.49 (m, 3 H) 3.52 - 3.55 (m, 1 H) 3.74 (d, J=13.18 Hz, 1 H) 4.10 - 4.17 (m, 1 H) 4.41 (s, 1 H) 4.85 - 4.88 (m, 4 H) 7.24 (d, J=7.91 Hz, 1 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.12 (d, J=8.20 Hz, 1 H) 8.60 - 8.66 (m, 1 H) 8.94 - 8.97 (m, 1 H)

FIG. 6V

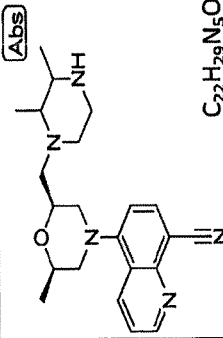
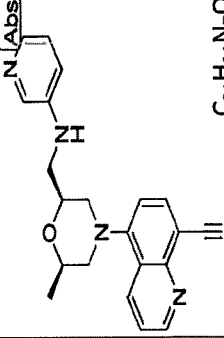
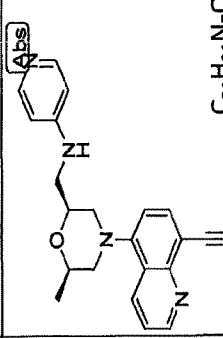
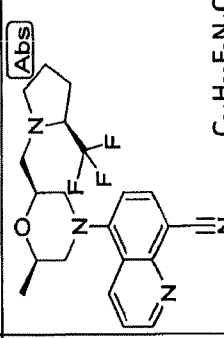
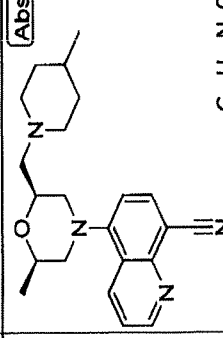
ER-887137	 <chem>CN1CCN(C1Cc2ccc3c(c2)nc4ccccc4n3)C</chem> $C_{22}H_{29}N_5O$	379.5	0.0157	> 10 < 20.9	5-((2S,6R)-2-((2,3-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.22 - 1.41 (m, 11 H) 2.63 - 2.76 (m, 2 H) 3.05 - 3.11 (m, 1 H) 3.33 - 3.46 (m, 4 H) 3.52 (s, 1 H) 3.72 - 3.77 (m, 1 H) 4.07 - 4.12 (m, 1 H) 7.21 - 7.25 (m, 1 H) 7.59 - 7.63 (m, 1 H) 8.11 - 8.14 (m, 1 H) 8.59 - 8.64 (m, 1 H) 8.95 (dd, <i>J</i> =4.39, 1.76 Hz, 1 H)	
ER-887138	 <chem>CN1CCN(C1Cc2ccc3c(c2)nc4ccccc4n3)C</chem> $C_{21}H_{21}N_5O$	359.4	0.0440	> 2.0	5-((2R,6S)-2-methyl-6-(pyridin-3-ylamino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.18 - 1.23 (m, 3 H) 2.63 - 2.69 (m, 1 H) 2.71 - 2.82 (m, 1 H) 3.36 (d, <i>J</i> =10.84 Hz, 1 H) 3.53 (d, <i>J</i> =10.84 Hz, 1 H) 3.97 - 4.05 (m, 1 H) 4.33 - 4.40 (m, 1 H) 4.43 - 4.49 (m, 1 H) 4.68 (d, <i>J</i> =13.48 Hz, 1 H) 4.86 (d, <i>J</i> =1.17 Hz, 4 H) 7.25 (dd, <i>J</i> =8.20, 1.17 Hz, 1 H) 7.60 - 7.68 (m, 3 H) 8.02 - 8.05 (m, 1 H) 8.07 - 8.15 (m, 2 H) 8.61 - 8.66 (m, 1 H) 8.96 (dt, <i>J</i> =4.10, 1.46 Hz, 1 H)	
ER-887139	 <chem>CN1CCN(C1Cc2ccc3c(c2)nc4ccccc4n3)C</chem> $C_{21}H_{21}N_5O$	359.4	0.0080	> 2.0	5-((2R,6S)-2-methyl-6-(pyridin-4-ylamino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.19 (d, <i>J</i> =6.15 Hz, 3 H) 2.60 - 2.72 (m, 2 H) 3.35 (d, <i>J</i> =12.01 Hz, 1 H) 3.47 (d, <i>J</i> =11.43 Hz, 1 H) 3.96 - 4.03 (m, 1 H) 4.14 - 4.20 (m, 1 H) 4.22 - 4.28 (m, 1 H) 4.34 (d, <i>J</i> =2.05 Hz, 1 H) 4.38 (s, 1 H) 4.85 - 4.87 (m, 5 H) 6.80 - 6.83 (m, 2 H) 7.24 (d, <i>J</i> =8.20 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.05 - 8.09 (m, 2 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.61 - 8.65 (m, 1 H) 8.95 - 8.97 (m, 1 H)	
ER-887140	 <chem>CN1CCN(C1Cc2ccc3c(c2)nc4ccccc4n3)C</chem> $C_{21}H_{21}N_5O$	404.4	0.3086	> 2.0	5-((2R,6S)-2-methyl-6-((S)-2-(trifluoromethyl)pyrrolidin-1-yl)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.20 - 1.25 (m, 4 H) 2.64 (d, <i>J</i> =9.96 Hz, 1 H) 2.75 (d, <i>J</i> =10.55 Hz, 1 H) 2.79 (s, 1 H) 3.09 (s, 1 H) 3.15 - 3.19 (m, 1 H) 3.30 - 3.40 (m, 4 H) 4.08 (d, <i>J</i> =7.03 Hz, 1 H) 4.80 - 4.86 (m, 9 H) 7.22 (d, <i>J</i> =7.91 Hz, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.13 (d, <i>J</i> =8.20 Hz, 1 H) 8.62 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.93 - 8.96 (m, 1 H)	
ER-887141	 <chem>CN1CCN(C1Cc2ccc3c(c2)nc4ccccc4n3)C</chem> $C_{22}H_{28}N_4O$	364.5	0.0630	> 2.0	5-((2R,6S)-2-methyl-6-(4-methylpiperidin-1-yl)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 0.99 (3 H, d) 1.27 (3 H, d) 1.40 - 1.60 (2 H, m) 1.63 - 1.76 (1 H, m) 1.83 - 2.03 (2 H, m) 2.60 - 2.77 (2 H, m) 2.96 - 3.09 (2 H, m) 3.23 - 3.26 (2 H, m) 3.32 - 3.46 (2 H, m) 3.60 - 3.72 (2 H, m) 4.08 - 4.24 (1 H, m) 4.33 - 4.49 (1 H, m) 7.19 - 7.26 (1 H, m) 7.56 - 7.66 (1 H, m) 8.08 - 8.17 (1 H, m) 8.56 - 8.66 (1 H, m) 8.90 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₂ H ₂₈ N ₄ O (M+H ⁺) 365.4, found 365.2

FIG. 6W

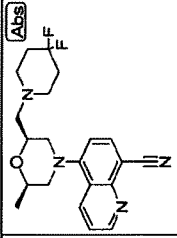
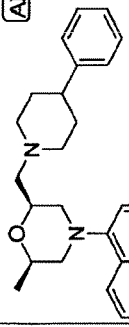
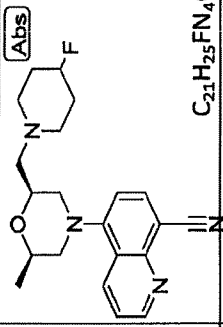
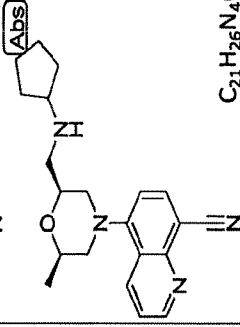
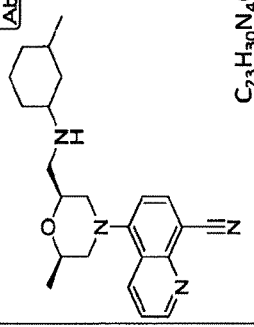
ER-887142	 <chem>Cc1ncc2c(c1)nc(C#N)cc2NCCN3C(F)(F)CCCC3</chem> $C_{21}H_{24}F_2N_4O$	386.4	0.1060	> 2.0	5-((2S,6R)-2-((4,4-difluoropiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.28 (d, <i>J</i> =5.57 Hz, 3 H) 1.33 (s, 1 H) 2.39 (br. s., 3 H) 2.45 (br. s., 1 H) 2.66 - 2.76 (m, 2 H) 3.33 - 3.43 (m, 4 H) 4.11 - 4.19 (m, 1 H) 4.41 - 4.48 (m, 1 H) 7.22 (d, <i>J</i> =7.91 Hz, 1 H) 7.58 - 7.62 (m, 1 H) 8.09 - 8.13 (m, 1 H) 8.61 (d, <i>J</i> =8.79 Hz, 1 H) 8.93 - 8.95 (m, 1 H)	LCMS (ESI+) calcd for C ₂₇ H ₃₀ N ₄ O (M+H ⁺) 427.5, found 427.6
ER-887143	 <chem>Cc1ncc2c(c1)nc(C#N)cc2NCCN3C(C)CCN(C3)Cc4ccc(cc4)N5C6=CC=CC=C6CCN5C6</chem> $C_{27}H_{30}N_4O$	426.6	0.0430	> 2.0	5-((2R,6S)-2-methyl-6-((4-phenyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.29 (3 H, d) 1.97 - 2.20 (4 H, m) 2.63 - 2.80 (2 H, m) 2.83 - 2.96 (1 H, m) 3.14 - 3.26 (2 H, m) 3.34 - 3.56 (4 H, m) 3.72 - 3.86 (2 H, m) 4.08 - 4.22 (1 H, m) 4.38 - 4.56 (1 H, m) 7.14 - 7.38 (6 H, m) 7.55 - 7.66 (1 H, m) 8.05 - 8.16 (1 H, m) 8.57 - 8.66 (1 H, m) 8.88 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₇ H ₃₀ N ₄ O (M+H ⁺) 427.5, found 427.6
ER-887144	 <chem>Cc1ncc2c(c1)nc(C#N)cc2NCCN3C(C)CCN(C3)Cc4cc(F)ccn4</chem> $C_{27}H_{30}FN_4O$	368.5	0.0760	> 2.0	5-((2S,6R)-2-((4-(4-fluoropiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.28 (3 H, d) 1.95 - 2.39 (5 H, m) 2.62 - 2.83 (2 H, m) 3.27 - 3.39 (2 H, m) 3.51 - 3.77 (2 H, m) 4.05 - 4.21 (2 H, m) 4.35 - 4.55 (3 H, m) 4.99 - 5.08 (1 H, m) 7.23 (1 H, d) 7.55 - 7.67 (1 H, m) 8.06 - 8.17 (1 H, m) 8.62 (1 H, d) 8.87 - 8.98 (1 H, m)	LCMS (ESI+) calcd for C ₂₇ H ₃₀ N ₄ O (M+H ⁺) 369.4, found 369.2
ER-887145	 <chem>Cc1ncc2c(c1)nc(C#N)cc2NCCN3C(C)CCN(C3)Cc4ccncc4</chem> $C_{21}H_{25}FN_4O$	350.5	0.0870	> 2.0	5-((2S,6R)-2-((cyclopentylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.28 (d, <i>J</i> =6.15 Hz, 4 H) 1.61 - 1.71 (m, 4 H) 1.81 (br. s., 2 H) 2.09 - 2.16 (m, 2 H) 2.65 - 2.77 (m, 2 H) 3.07 - 3.14 (m, 1 H) 3.22 - 3.26 (m, 1 H) 3.37 - 3.42 (m, 2 H) 3.58 (t, <i>J</i> =7.32 Hz, 1 H) 4.07 - 4.15 (m, 1 H) 4.20 - 4.27 (m, 1 H) 4.85 - 4.87 (m, 5 H) 7.24 (d, <i>J</i> =8.20 Hz, 1 H) 7.60 - 7.64 (m, 1 H) 8.13 (d, <i>J</i> =8.20 Hz, 1 H) 8.60 - 8.63 (m, 1 H) 8.94 - 8.97 (m, 1 H)	
ER-887146	 <chem>Cc1ncc2c(c1)nc(C#N)cc2NCCN3C(C)CCN(C3)Cc4cc(C)ccn4</chem> $C_{23}H_{30}N_4O$	378.5	0.0680	> 2.0	5-((2R,6S)-2-methyl-6-((3-methylcyclohexylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 0.86 - 1.10 (m, 5 H) 1.25 - 1.40 (m, 4 H) 1.47 - 1.54 (m, 1 H) 1.62 (s, 1 H) 1.67 - 1.76 (m, 1 H) 1.85 - 1.91 (m, 1 H) 2.09 (d, <i>J</i> =5.27 Hz, 2 H) 2.64 - 2.77 (m, 2 H) 3.09 - 3.17 (m, 2 H) 3.22 - 3.26 (m, 1 H) 3.37 - 3.43 (m, 2 H) 4.07 - 4.15 (m, 1 H) 4.20 - 4.27 (m, 1 H) 4.88 (br. s., 1 H) 7.23 (d, <i>J</i> =8.20 Hz, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.61 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.95 (dd, <i>J</i> =4.39, 1.76 Hz, 1 H)	

FIG. 6X

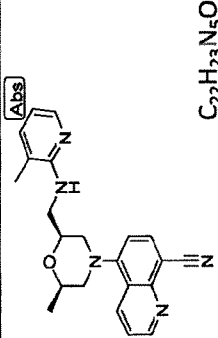
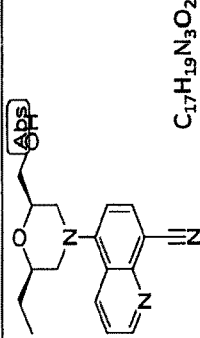
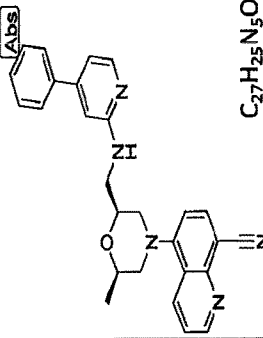
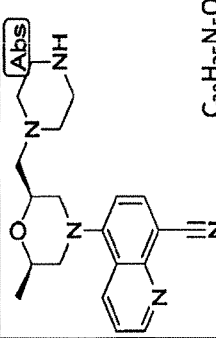
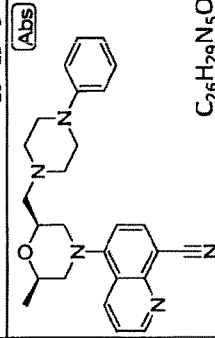
ER-887177		373.5	0.0030	> 2.0	5-((2R,6S)-2-methyl-6-((3-methylpyridin-2-yl)amino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.12 - 1.16 (m, 3 H) 2.24 - 2.28 (m, 3 H) 2.61 - 2.68 (m, 1 H) 2.77 - 2.84 (m, 1 H) 3.24 - 3.26 (m, 1 H) 3.31 - 3.36 (m, 1 H) 3.55 (d, J=11.72 Hz, 1 H) 3.94 - 4.01 (m, 1 H) 4.30 - 4.47 (m, 3 H) 4.82 - 4.87 (m, 5 H) 6.80 - 6.85 (m, 1 H) 7.19 - 7.24 (m, 1 H) 7.56 - 7.61 (m, 1 H) 7.74 (d, J=7.32 Hz, 1 H) 7.83 (d, J=6.74 Hz, 1 H) 8.07 - 8.11 (m, 1 H) 8.57 - 8.62 (m, 1 H) 8.90 - 8.93 (m, 1 H)	LCMS (ESI+) calcd for C ₁₇ H ₁₉ N ₃ O ₂ (M+H ⁺) 298.3, found 298.4
ER-887199		297.4	0.1050	> 2.0	5-((2R,6R)-2-ethyl-6-((hydroxymethyl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.99 (3 H, t) 1.43 - 1.68 (2 H, m) 2.60 - 2.73 (1 H, m) 2.74 - 2.89 (1 H, m) 3.31 - 3.46 (2 H, m) 3.76 - 3.88 (1 H, m) 4.21 - 4.29 (1 H, m) 4.48 (2 H, br. s.) 7.24 (1 H, s) 7.53 - 7.67 (1 H, m) 7.96 - 8.19 (1 H, m) 8.53 - 8.70 (1 H, m) 8.88 - 9.04 (1 H, m)	
ER-887252		435.5	0.0066	> 2.0	5-((2R,6S)-2-methyl-6-((4-phenylpyridin-2-yl)amino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.16 - 1.22 (m, 4 H) 2.70 (dd, J=12.01, 10.25 Hz, 1 H) 2.79 - 2.88 (m, 1 H) 3.31 - 3.39 (m, 1 H) 3.57 (d, J=11.43 Hz, 1 H) 4.00 - 4.06 (m, 1 H) 4.29 - 4.44 (m, 3 H) 4.80 - 4.85 (m, 5 H) 7.20 - 7.33 (m, 3 H) 7.52 - 7.64 (m, 4 H) 7.74 - 7.79 (m, 2 H) 7.99 (d, J=7.03 Hz, 1 H) 8.11 - 8.15 (m, 1 H) 8.29 (br. s., 1 H) 8.62 - 8.67 (m, 1 H) 8.93 - 8.97 (m, 1 H)	
ER-887253		351.5	0.0072		5-((2R,6S)-2-methyl-6-((1-methylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (d, J=6.15 Hz, 4 H) 1.96 - 2.04 (m, 1 H) 2.27 - 2.34 (m, 1 H) 2.64 - 2.79 (m, 3 H) 3.25 (br. s., 1 H) 3.29 - 3.43 (m, 5 H) 3.48 (s, 1 H) 3.52 - 3.63 (m, 9 H) 4.07 - 4.14 (m, 1 H) 4.38 - 4.46 (m, 1 H) 7.16 - 7.24 (m, 1 H) 7.57 - 7.67 (m, 1 H) 8.08 - 8.13 (m, 1 H) 8.58 - 8.62 (m, 1 H) 8.94 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-887258		427.6	0.0852	> 2.0	5-((2R,6S)-2-methyl-6-((4-phenylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.29 (d, J=6.15 Hz, 3 H) 2.67 - 2.79 (m, 2 H) 3.30 - 3.43 (m, 7 H) 4.13 - 4.19 (m, 1 H) 4.44 - 4.51 (m, 1 H) 4.82 - 4.86 (m, 5 H) 6.88 - 6.93 (m, 1 H) 6.98 - 7.03 (m, 2 H) 7.22 - 7.29 (m, 3 H) 7.59 - 7.64 (m, 1 H) 8.11 - 8.15 (m, 1 H) 8.61 - 8.65 (m, 1 H) 8.94 - 8.97 (m, 1 H)	

FIG. 6Y

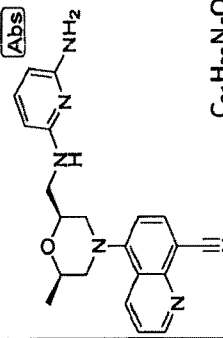
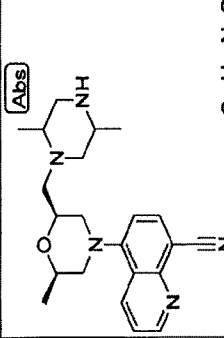
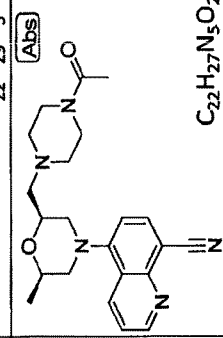
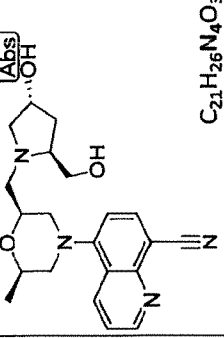
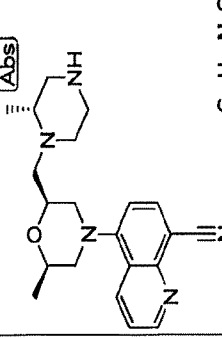
ER-887259		374.4	0.0019	> 2.0	5-((2S,6R)-2-(((6-aminopyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.20 - 1.24 (m, 4 H) 2.61 - 2.68 (m, 1 H) 2.77 - 2.84 (m, 1 H) 3.34 - 3.43 (m, 4 H) 3.47 - 3.52 (m, 1 H) 4.05 - 4.19 (m, 2 H) 4.84 - 4.87 (m, 6 H) 5.96 - 6.04 (m, 2 H) 7.22 (d, <i>J</i> =7.91 Hz, 1 H) 7.51 - 7.62 (m, 2 H) 8.11 (d, <i>J</i> =7.91 Hz, 1 H) 8.59 - 8.63 (m, 1 H) 8.92 - 8.95 (m, 1 H)
ER-887260		379.5	0.0901	> 2.0	5-((2S,6R)-2-((2S,6R)-2-(dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.28 (d, <i>J</i> =6.15 Hz, 4 H) 1.61 - 1.71 (m, 4 H) 1.81 (br. s., 2 H) 2.09 - 2.16 (m, 2 H) 2.65 - 2.77 (m, 2 H) 3.07 - 3.14 (m, 1 H) 3.22 - 3.26 (m, 1 H) 3.37 - 3.42 (m, 2 H) 3.58 (t, <i>J</i> =7.32 Hz, 1 H) 4.07 - 4.15 (m, 1 H) 4.20 - 4.27 (m, 1 H) 4.85 - 4.87 (m, 5 H) 7.24 (d, <i>J</i> =8.20 Hz, 1 H) 7.60 - 7.64 (m, 1 H) 8.13 (d, <i>J</i> =8.20 Hz, 1 H) 8.60 - 8.63 (m, 1 H) 8.94 - 8.97 (m, 1 H)
ER-887261		393.5	0.0917	> 2.0	5-((2S,6R)-2-((4-acetypiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-887262		382.5	0.2720	> 2.0	5-((2S,6R)-2-(((2S,4R)-4-hydroxy-2-(hydroxymethyl)pyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.25 - 1.34 (m, 3 H) 1.98 - 2.05 (m, 1 H) 2.07 - 2.16 (m, 2 H) 2.30 - 2.34 (m, 1 H) 2.66 - 2.79 (m, 3 H) 3.31 (s, 1 H) 3.36 - 3.44 (m, 5 H) 3.64 - 3.68 (m, 1 H) 3.70 (s, 1 H) 3.74 - 3.84 (m, 2 H) 3.95 (d, <i>J</i> =3.81 Hz, 1 H) 3.97 - 4.02 (m, 1 H) 4.11 - 4.15 (m, 1 H) 4.34 - 4.40 (m, 1 H) 4.53 (br. s., 1 H) 7.25 (d, <i>J</i> =7.91 Hz, 1 H) 7.62 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.13 (d, <i>J</i> =7.91 Hz, 1 H) 8.63 - 8.66 (m, 1 H) 8.96 (dd, <i>J</i> =4.10, 1.76 Hz, 1 H)
ER-887268		365.5	0.0360	> 2.0	5-((2R,6S)-2-methyl-6-(((R)-2-methylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.23 - 1.27 (m, 3 H) 1.34 - 1.44 (m, 4 H) 1.98 - 2.04 (m, 1 H) 2.30 - 2.34 (m, 1 H) 2.64 - 2.71 (m, 1 H) 2.74 - 2.80 (m, 2 H) 3.10 - 3.25 (m, 2 H) 3.36 - 3.51 (m, 6 H) 3.55 - 3.63 (m, 3 H) 3.81 - 3.86 (m, 1 H) 4.08 - 4.14 (m, 1 H) 4.35 - 4.41 (m, 1 H) 7.22 - 7.25 (m, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.13 (d, <i>J</i> =7.91 Hz, 1 H) 8.61 - 8.64 (m, 1 H) 8.95 (dd, <i>J</i> =4.10, 1.76 Hz, 1 H)

FIG. 6Z

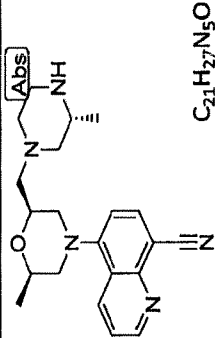
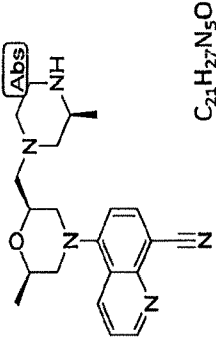
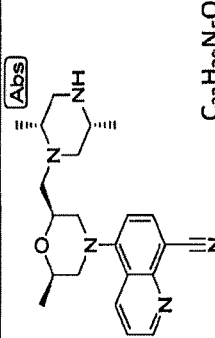
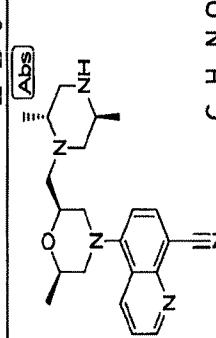
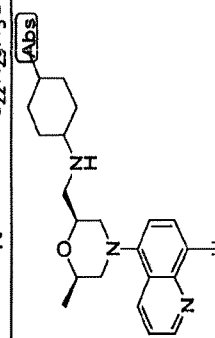
ER-887269		365.5	0.0195	> 2.0	5-((2R,6S)-2-methyl-6-(((R)-3-methylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.23 (3 H, d) 1.35 (3 H, d) 2.58 - 2.76 (2 H, m) 2.77 - 2.93 (1 H, m) 3.12 (3 H, d) 3.38 (3 H, br. s.) 3.50 - 3.71 (4 H, m) 4.02 - 4.15 (1 H, m) 4.28 - 4.40 (1 H, m) 7.17 - 7.29 (1 H, m) 7.55 - 7.66 (1 H, m) 8.08 - 8.17 (1 H, m) 8.55 - 8.68 (1 H, m) 8.89 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₁ H ₂₇ N ₅ O (M+H ⁺) 366.4, found 366.5
ER-887270		365.5	0.0120	> 2.0	5-((2R,6S)-2-methyl-6-(((S)-3-methylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (3 H, d) 1.38 (3 H, d) 2.60 - 2.79 (2 H, m) 3.00 - 3.14 (1 H, m) 3.35 - 3.56 (5 H, m) 3.58 - 3.85 (5 H, m) 4.02 - 4.19 (1 H, m) 4.33 - 4.49 (1 H, m) 7.09 - 7.28 (1 H, m) 7.53 - 7.71 (1 H, m) 8.05 - 8.15 (1 H, m) 8.55 - 8.67 (1 H, m) 8.87 - 9.02 (1 H, m)	LCMS (ESI+) calcd for C ₂₁ H ₂₇ N ₅ O (M+H ⁺) 366.4, found 366.5
ER-887271		379.5	0.0150	> 2.0	5-((2S,6R)-2-(((2R,5R)-2,5-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.20 - 1.28 (3 H, d) 1.33 - 1.40 (6 H, m) 2.62 - 2.77 (2 H, m) 3.03 - 3.18 (4 H, m) 3.31 - 3.50 (4 H, m) 3.55 - 3.70 (2 H, m) 4.02 - 4.14 (1 H, m) 4.23 - 4.34 (1 H, m) 7.19 - 7.29 (1 H, m) 7.57 - 7.64 (1 H, m) 8.08 - 8.18 (1 H, m) 8.58 - 8.65 (1 H, m) 8.92 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₂ H ₂₉ N ₅ O (M+H ⁺) 380.5, found 380.7
ER-887272		379.5	0.0340	> 2.0	5-((2S,6R)-2-(((2R,5S)-2,5-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-887442		378.5	0.1487	> 2.0	5-((2R,6S)-2-methyl-6-(((4-methylcyclohexyl)amino)methyl)morpholino)quinoline-8-carbonitrile		

FIG. 6AA

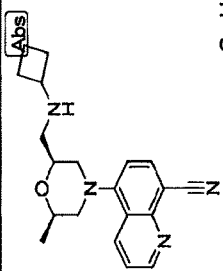
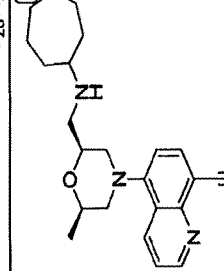
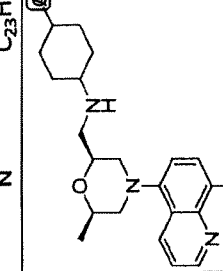
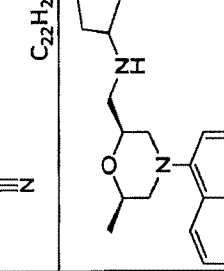
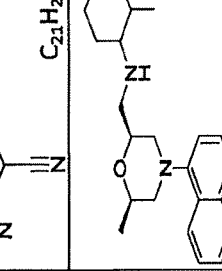
ER-887443	 C ₂₀ H ₂₄ N ₄ O (Abs)	336.4	0.1250	>2.0	5-((2S,6R)-2-((cyclobutylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.28 (d, J=6.15 Hz, 4 H) 1.85 - 1.95 (m, 2 H) 2.13 - 2.26 (m, 2 H) 2.33 (d, J=9.38 Hz, 2 H) 2.64 - 2.75 (m, 2 H) 2.95 - 3.01 (m, 1 H) 3.09 - 3.15 (m, 1 H) 3.40 (s, 1 H) 3.37 (s, 1 H) 3.75 - 3.81 (m, 1 H) 4.09 (d, J=6.15 Hz, 1 H) 4.16 - 4.23 (m, 1 H) 4.85 - 4.86 (m, 6 H) 7.23 (d, J=7.91 Hz, 1 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.12 (dt, J=7.91, 0.88 Hz, 1 H) 8.61 (d, J=8.79 Hz, 1 H) 8.94 - 8.97 (m, 1 H)
ER-887444	 C ₂₃ H ₃₀ N ₄ O (Abs)	378.5	0.1007	>2.0	5-((2S,6R)-2-((cycloheptylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 - 1.29 (m, 4 H) 1.55 (br. s., 4 H) 1.60 (br. s., 4 H) 1.63 - 1.71 (m, 3 H) 1.78 (br. s., 2 H) 2.08 (d, J=5.86 Hz, 2 H) 2.63 - 2.77 (m, 2 H) 3.08 - 3.15 (m, 1 H) 3.23 (d, J=14.65 Hz, 1 H) 3.29 (br. s., 1 H) 3.40 (s, 1 H) 3.37 (s, 1 H) 4.11 (d, J=7.62 Hz, 1 H) 4.18 - 4.25 (m, 1 H) 4.85 - 4.87 (m, 6 H) 7.21 - 7.25 (m, 1 H) 7.58 - 7.63 (m, 1 H) 8.10 - 8.14 (m, 1 H) 8.58 - 8.63 (m, 1 H) 8.93 - 8.96 (m, 1 H)
ER-887526	 C ₂₃ H ₃₀ N ₄ O (Abs)	380.5	0.1190	>2.0	5-((2S,6R)-2-(((4-hydroxycyclohexylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 - 1.37 (m, 6 H) 1.40 - 1.54 (m, 2 H) 2.04 (s, 1 H) 2.01 (s, 1 H) 2.09 - 2.17 (m, 2 H) 2.64 - 2.76 (m, 2 H) 3.06 - 3.15 (m, 2 H) 3.21 - 3.25 (m, 1 H) 3.40 (s, 1 H) 3.37 (s, 1 H) 3.49 - 3.57 (m, 1 H) 4.07 - 4.14 (m, 1 H) 4.19 - 4.26 (m, 1 H) 4.80 - 4.85 (m, 7 H) 7.23 (d, J=7.91 Hz, 1 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.60 (dd, J=8.79, 1.76 Hz, 1 H) 8.95 (dd, J=4.39, 1.76 Hz, 1 H)
ER-887528	 C ₂₂ H ₂₈ N ₄ O ₂ (Abs)	366.5	>2.0	>2.0	5-((2S,6R)-2-(((2-hydroxycyclopentylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-887538	 C ₂₃ H ₃₀ N ₄ O (Abs)	378.5	0.0400	>2.0	5-((2R,6S)-2-methyl-6-(((2-methylcyclohexylamino)methyl)morpholino)quinoline-8-carbonitrile	

FIG. 6BB

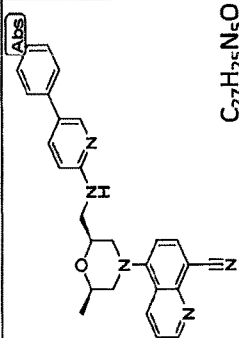
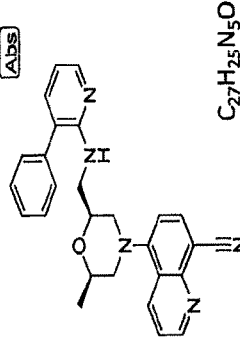
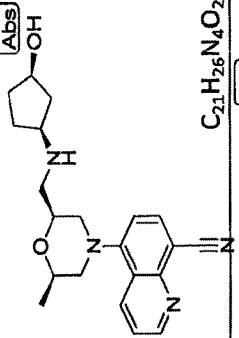
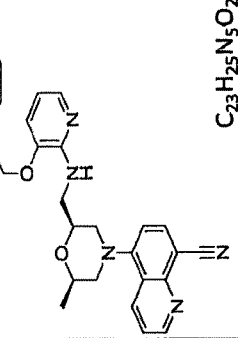
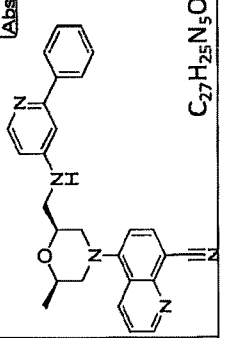
ER-887539		435.5	0.0020	>2.0	5-((2R,6S)-2-methyl-6-((5-phenylpyridin-2-yl)amino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.19 (d, <i>J</i> =6.15 Hz, 4 H) 2.72 (dd, <i>J</i> =12.01, 10.25 Hz, 1 H) 2.83 - 2.89 (m, 1 H) 3.37 (d, <i>J</i> =12.01 Hz, 1 H) 3.59 (d, <i>J</i> =11.43 Hz, 1 H) 4.00 - 4.05 (m, 1 H) 4.39 - 4.48 (m, 4 H) 4.80 - 4.86 (m, 17 H) 7.18 (d, <i>J</i> =9.38 Hz, 1 H) 7.28 (d, <i>J</i> =7.91 Hz, 1 H) 7.39 - 7.50 (m, 3 H) 7.57 - 7.64 (m, 4 H) 8.14 (d, <i>J</i> =7.91 Hz, 1 H) 8.19 - 8.26 (m, 2 H) 8.64 - 8.68 (m, 1 H) 8.96 (dd, <i>J</i> =4.10, 1.76 Hz, 1 H)
ER-887540		435.5	0.0060	>2.0	5-((2R,6S)-2-methyl-6-((3-phenylpyridin-2-yl)amino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.17 - 1.21 (m, 4 H) 2.67 - 2.73 (m, 1 H) 2.84 - 2.90 (m, 1 H) 3.38 (d, <i>J</i> =12.01 Hz, 1 H) 3.59 (d, <i>J</i> =12.01 Hz, 1 H) 4.02 - 4.08 (m, 1 H) 4.41 - 4.53 (m, 3 H) 4.83 - 4.87 (m, 14 H) 7.00 - 7.05 (m, 1 H) 7.28 (d, <i>J</i> =7.91 Hz, 1 H) 7.44 - 7.64 (m, 6 H) 7.78 (dd, <i>J</i> =7.32, 1.17 Hz, 1 H) 7.99 - 8.03 (m, 1 H) 8.14 (d, <i>J</i> =7.91 Hz, 1 H) 8.63 - 8.67 (m, 1 H) 8.94 - 8.97 (m, 1 H)
ER-887586		366.5	0.0860	>2.0	5-((2S,6R)-2-(((1S,3R)-3-hydroxycyclopentylamino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.23 - 1.29 (m, 4 H) 1.80 - 1.87 (m, 3 H) 1.93 - 2.04 (m, 3 H) 2.12 - 2.19 (m, 2 H) 2.29 - 2.34 (m, 2 H) 2.64 - 2.79 (m, 5 H) 3.09 - 3.16 (m, 1 H) 3.24 (d, <i>J</i> =2.93 Hz, 1 H) 3.36 - 3.43 (m, 4 H) 3.64 - 3.70 (m, 1 H) 4.08 - 4.13 (m, 1 H) 4.20 - 4.26 (m, 1 H) 4.30 - 4.34 (m, 1 H) 4.82 - 4.86 (m, 7 H) 7.24 (d, <i>J</i> =8.20 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.13 (d, <i>J</i> =7.91 Hz, 1 H) 8.59 - 8.63 (m, 1 H) 8.94 - 8.96 (m, 1 H)
ER-887587		403.5	0.0020	>2.0	5-((2S,6R)-2-(((3-ethoxypyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.14 - 1.18 (m, 4 H) 1.45 - 1.50 (m, 4 H) 2.63 - 2.70 (m, 1 H) 2.80 - 2.87 (m, 1 H) 3.33 - 3.42 (m, 1 H) 3.54 (d, <i>J</i> =11.43 Hz, 1 H) 3.97 - 4.03 (m, 1 H) 4.24 (q, <i>J</i> =7.03 Hz, 3 H) 4.35 - 4.43 (m, 3 H) 4.81 - 4.85 (m, 7 H) 6.80 - 6.86 (m, 1 H) 7.23 - 7.28 (m, 1 H) 7.32 - 7.41 (m, 1 H) 7.51 - 7.54 (m, 1 H) 7.59 - 7.64 (m, 1 H) 8.12 - 8.15 (m, 1 H) 8.60 - 8.66 (m, 1 H) 8.94 - 8.97 (m, 1 H)
ER-887588		435.5	0.0030	>2.0	5-((2R,6S)-2-methyl-6-((2-phenylpyridin-4-yl)amino)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.18 (d, <i>J</i> =6.15 Hz, 3 H) 2.32 (s, 1 H) 2.57 (d, <i>J</i> =11.72 Hz, 1 H) 2.79 (s, 1 H) 3.03 (d, <i>J</i> =11.72 Hz, 1 H) 3.39 - 3.43 (m, 1 H) 4.05 - 4.10 (m, 1 H) 4.20 - 4.23 (m, 1 H) 4.81 - 4.86 (m, 21 H) 6.73 (d, <i>J</i> =2.93 Hz, 1 H) 6.87 - 6.89 (m, 1 H) 7.11 (s, 1 H) 7.13 (s, 1 H) 7.52 - 7.61 (m, 6 H) 8.08 (d, <i>J</i> =7.91 Hz, 1 H) 8.21 (s, 1 H) 8.23 (s, 1 H) 8.40 (s, 1 H) 8.41 (s, 1 H) 8.93 - 8.95 (m, 1 H)

FIG. 6CC

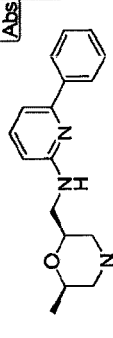
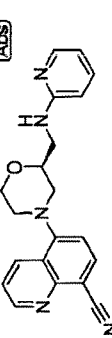
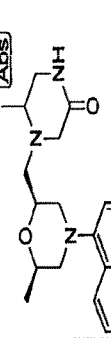
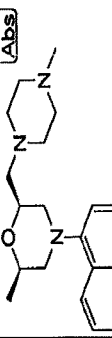
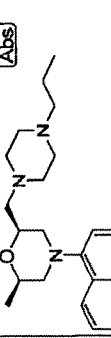
ER-887589	 [Abs] C ₂₇ H ₂₅ N ₅ O	435.5	0.1730	> 2.0	5-((2R,6S)-2-methyl-6-((6-phenylpyridin-2-ylamino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.06 (br. s., 1 H) 1.97 - 2.02 (m, 1 H) 2.30 - 2.32 (m, 1 H) 2.64 (d, J=9.96 Hz, 1 H) 2.79 (s, 1 H) 2.85 - 2.88 (m, 1 H) 3.33 (s, 1 H) 3.36 - 3.41 (m, 1 H) 3.43 (d, J=4.98 Hz, 1 H) 3.47 (s, 1 H) 3.75 - 3.79 (m, 1 H) 4.81 - 4.85 (m, 19 H) 7.12 (d, J=9.38 Hz, 1 H) 7.19 (d, J=7.32 Hz, 1 H) 7.24 (d, J=8.20 Hz, 1 H) 7.58 - 7.63 (m, 4 H) 7.78 - 7.82 (m, 2 H) 7.98 - 8.03 (m, 1 H) 8.12 (s, 1 H) 8.13 (s, 1 H) 8.61 - 8.64 (m, 1 H) 8.94 - 8.96 (m, 1 H)	LCMS (ESI+) calcd for C ₂₀ H ₁₉ N ₅ O (M+H+): 346.16, found: 346.33
ER-887612	 [Abs] C ₂₀ H ₁₉ N ₅ O	345.4	0.6110	> 2.0	(S)-5-(2-((pyridin-2-ylamino)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 2.64 - 2.78 (m, 1 H) 3.04 (td, J=11.80, 3.10 Hz, 1 H) 3.25 (d, 1 H) 3.79 - 4.09 (m, 4 H) 4.35 (t, J=9.51 Hz, 1 H) 4.80 (d, 1 H) 6.52 (br. s., 1 H) 7.02 - 7.13 (m, 1 H) 7.17 - 7.29 (m, 1 H) 7.37 - 7.56 (m, 3 H) 8.00 (d, J=7.90 Hz, 1 H) 8.41 - 8.52 (m, 1 H) 9.01 (dd, J=4.27, 1.71 Hz, 1 H)	
ER-887722	 [Abs] C ₂₀ H ₁₉ N ₅ O	379.5	0.0170	> 2.0	5-((2R,6S)-2-methyl-6-((2-methyl-5-oxopiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile		
ER-887723	 [Abs] C ₂₁ H ₂₅ N ₅ O ₂	365.5	0.0160	>10 & < 30	5-((2R,6S)-2-methyl-6-((4-methylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (3 H, d) 2.57 - 2.75 (2 H, m) 2.93 (3 H, s) 3.11 - 3.22 (2 H, m) 3.31 - 3.42 (3 H, m) 3.44 - 3.60 (7 H, m) 4.04 - 4.18 (1 H, m) 4.29 - 4.43 (1 H, m) 7.16 - 7.27 (1 H, m) 7.54 - 7.64 (1 H, m) 8.06 - 8.14 (1 H, m) 8.57 - 8.65 (1 H, m) 8.90 - 8.98 (1 H, m)	LCMS (ESI+) calcd for C ₂₁ H ₂₇ N ₅ O (M+H+): 366.4, found 366.6
ER-887724	 [Abs] C ₂₃ H ₃₁ N ₅ O	393.5	0.0150	> 30	5-((2R,6S)-2-methyl-6-((4-propylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.99 (3 H, t) 1.23 (3 H, d) 1.65 - 1.78 (2 H, m) 2.56 - 2.66 (1 H, m) 2.68 - 2.77 (1 H, m) 2.91 - 3.00 (2 H, m) 3.02 - 3.16 (2 H, m) 3.27 (4 H, d) 3.34 - 3.49 (6 H, m) 3.98 - 4.15 (1 H, m) 4.21 - 4.37 (1 H, m) 7.16 - 7.27 (1 H, m) 7.57 - 7.63 (1 H, m) 8.07 - 8.17 (1 H, m) 8.54 - 8.65 (1 H, m) 8.90 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₃ H ₃₁ N ₅ O (M+H+): 394.5, found 394.6

FIG. 6DD

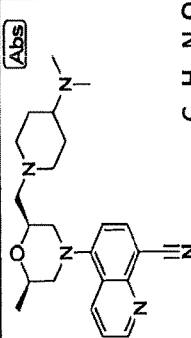
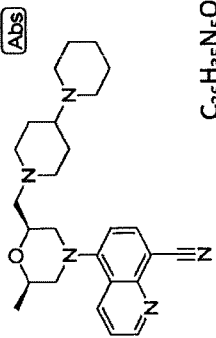
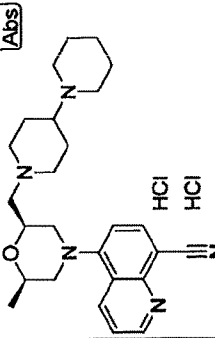
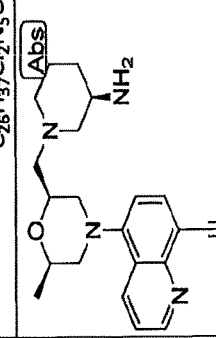
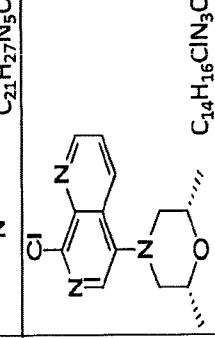
ER-887725	 $C_{23}H_{31}N_5O$	393.5	0.0080	0.8	5-((2S,6R)-2-((4-(dimethylamino)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (3 H, d) 2.03 - 2.26 (2 H, m) 2.28 - 2.46 (2 H, m) 2.62 - 2.78 (2 H, m) 2.90 (6 H, s) 3.13 - 3.22 (2 H, m) 3.29 - 3.44 (4 H, m) 3.47 - 3.63 (1 H, m) 3.78 - 3.96 (2 H, m) 4.06 - 4.19 (1 H, m) 4.35 - 4.52 (1 H, m) 7.16 - 7.32 (1 H, m) 7.54 - 7.66 (1 H, m) 8.12 (1 H, d) 8.61 (1 H, d) 8.88 - 9.02 (1 H, m)	LCMS (ESI+) calcd for C ₂₃ H ₃₁ N ₅ O (M+H ⁺) 394.5, found 394.7
ER-887927	 $C_{26}H_{35}N_5O$	433.6	0.0114	0.719	5-((2S,6R)-2-((1,4'-bipiperidin-1'-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.26 (3 H, d) 1.43 - 1.60 (1 H, m) 1.71 - 1.86 (3 H, m) 1.90 - 2.04 (2 H, m) 2.08 - 2.28 (2 H, m) 2.38 (2 H, br. s.) 2.63 - 2.79 (2 H, m) 3.00 - 3.05 (3 H, m) 3.30 - 3.42 (4 H, m) 3.52 (4 H, br. s.) 3.77 - 3.94 (2 H, m) 4.12 (1 H, d) 4.43 (1 H, br. s.) 7.23 (1 H, d) 7.49 - 7.71 (1 H, m) 8.11 (1 H, s) 8.50 - 8.66 (1 H, m) 8.85 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₆ H ₃₅ N ₅ O (M+H ⁺) 434.5, found 434.6
ER-887927	 $C_{26}H_{35}N_5O$	433.6	0.0109	0.41482	5-((2S,6R)-2-((1,4'-bipiperidin-1'-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile dihydrochloride	¹ H NMR (400 MHz, DMSO-d ₆) δ ppm 1.21 (d, J=6.20 Hz, 3 H) 1.31 - 1.51 (m, 1 H) 1.71 (d, J=13.03 Hz, 1 H) 1.76 - 2.03 (m, 4 H) 2.11 - 2.30 (m, 2 H) 2.30 - 2.41 (m, 2 H) 2.60 - 2.80 (m, 2 H) 2.80 - 3.01 (m, 2 H) 3.03 - 3.21 (m, 2 H) 3.37 - 3.53 (m, 2 H) 3.63 (d, J=11.75 Hz, 1 H) 3.80 (d, J=12.60 Hz, 1 H) 3.97 - 4.15 (m, 1 H) 4.50 (t, J=9.19 Hz, 1 H) 7.19 - 7.34 (m, 1 H) 7.63 - 7.76 (m, 1 H) 8.29 (d, J=8.12 Hz, 1 H) 8.55 - 8.67 (m, 1 H) 9.07 (dd, J=4.27, 1.71 Hz, 1 H) 10.84 (br. s., 1 H) 10.94 (br. s., 1 H)	LCMS (ESI+) calcd for C ₂₆ H ₃₇ Cl ₂ N ₅ O (M+H ⁺): 434.23, found: 434.55
ER-887928	 $C_{26}H_{37}Cl_2N_5O$	365.5	0.1410	> 2.0	5-((2S,6R)-2-(((R)-3-aminopiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.26 (d, J=6.15 Hz, 3 H) 1.41 (br. s., 1 H) 1.51 - 1.77 (m, 2 H) 1.78 - 2.02 (m, 2 H) 2.03 - 2.29 (m, 2 H) 2.57 - 2.81 (m, 2 H) 3.10 (s, 1 H) 3.05 (s, 1 H) 3.32 (br. s., 1 H) 3.40 (s, 1 H) 3.37 (s, 1 H) 3.59 (br. s., 2 H) 3.73 (br. s., 2 H) 4.12 (dd, J=8.20, 6.45 Hz, 2 H) 4.42 (br. s., 1 H) 4.59 - 4.82 (m, 1 H) 7.24 (d, J=8.20 Hz, 1 H) 7.44 - 7.65 (m, 1 H) 8.13 (d, J=7.91 Hz, 1 H) 8.61 (dd, J=8.50, 1.76 Hz, 1 H) 8.92 - 8.99 (m, 1 H)	
ER-887960	 $C_{14}H_{16}ClN_3O$	277.8	1.1800	>20	(2R,6S)-4-(8-chloro-1,7-naphthyridin-5-yl)-2,6-dimethylmorpholine		

FIG. 6EE

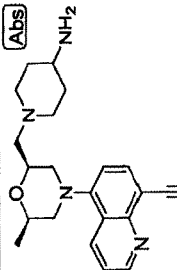
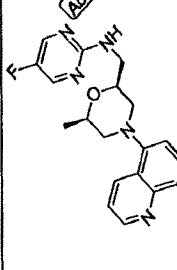
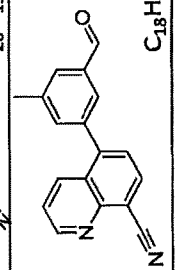
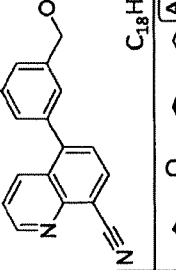
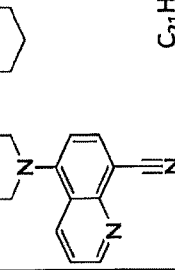
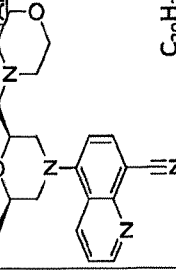
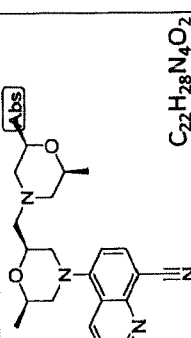
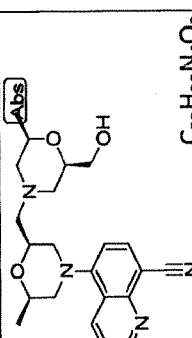
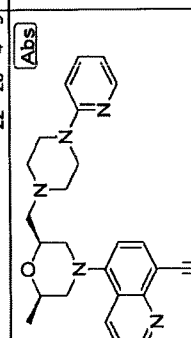
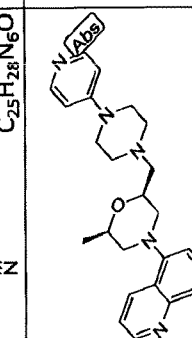
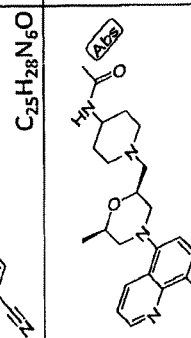
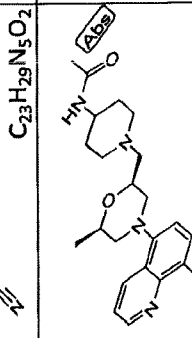
ER-888070	 C ₂₁ H ₂₇ N ₅ O	365.5	0.0215	0.352	5-((2S,6R)-2-((4-aminopiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.26 (3 H, d) 1.95 - 2.10 (2 H, m) 2.18 - 2.32 (2 H, m) 2.63 - 2.74 (2 H, m) 3.32 - 3.39 (5 H, m) 3.41 - 3.54 (2 H, m) 3.72 - 3.92 (2 H, m) 4.08 - 4.18 (1 H, m) 4.36 - 4.52 (1 H, m) 7.19 - 7.27 (1 H, m) 7.54 - 7.64 (1 H, m) 8.04 - 8.17 (1 H, m) 8.54 - 8.66 (1 H, m) 8.89 - 9.02 (1 H, m)	LCMS (ESI+) calcd for C ₂₁ H ₂₇ N ₅ O (M+H ⁺) 366.4, found 366.2
ER-888137	 C ₂₁ H ₂₇ N ₅ O	378.4	0.1860	> 2.0	5-((2S,6R)-2-((5-fluoropyrimidin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.20 - 1.27 (m, 7 H) 2.61 (d, J=11.72 Hz, 1 H) 2.65 - 2.71 (m, 1 H) 3.33 (s, 1 H) 3.36 (s, 1 H) 3.40 (s, 1 H) 3.43 (s, 1 H) 3.47 - 3.50 (m, 2 H) 4.81 - 4.90 (m, 18 H) 7.19 (d, J=8.20 Hz, 1 H) 7.56 - 7.59 (m, 1 H) 8.09 (s, 1 H) 8.11 (s, 1 H) 8.20 (s, 1 H) 8.38 (br. s., 1 H) 8.56 - 8.59 (m, 1 H) 8.92 - 8.94 (m, 1 H)	
ER-888200	 C ₂₀ H ₁₉ FN ₆ O	272.306	0.8580	> 2.0	5-(3-formyl-5-methylphenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 2.57 (s, 3 H) 7.50 - 7.57 (m, 2 H) 7.60 (d, J=7.48 Hz, 1 H) 7.74 - 7.81 (m, 1 H) 7.85 (d, J=0.85 Hz, 1 H) 8.15 - 8.28 (m, 2 H) 9.15 (dd, J=4.17, 1.60 Hz, 1 H) 10.10 (s, 1 H)	LCMS (ESI+) calcd for C ₁₈ H ₁₂ N ₂ O (M+H ⁺) 273.10, found: 273.26
ER-888201	 C ₁₈ H ₁₂ N ₂ O	274.322	0.1240	> 2.0	5-(3-(hydroxymethyl)-5-methylphenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 2.47 (d, J=0.64 Hz, 3 H) 4.79 (s, 2 H) 7.15 - 7.22 (m, 1 H) 7.27 (m, 1 H) 7.31 - 7.37 (m, 1 H) 7.51 (dd, J=8.65, 4.17 Hz, 1 H) 7.56 (d, J=7.26 Hz, 1 H) 8.16 (d, J=7.48 Hz, 1 H) 8.31 (dd, J=8.76, 1.71 Hz, 1 H) 9.10 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₁₈ H ₁₃ ClN ₂ (M+H ⁺) 275.11, found: 275.24
ER-888202	 C ₂₁ H ₂₆ N ₄ O	350.5	0.0670	> 2.0	5-((2R,6S)-2-methyl-6-(piperidin-1-ylmethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (d, J=6.45 Hz, 4 H) 1.75 - 1.99 (m, 5 H) 2.65 - 2.75 (m, 3 H) 2.98 - 3.07 (m, 3 H) 3.19 - 3.25 (m, 2 H) 3.33 - 3.41 (m, 3 H) 3.62 (s, 1 H) 3.59 (s, 1 H) 4.11 - 4.16 (m, 1 H) 4.37 - 4.44 (m, 1 H) 4.80 - 4.94 (m, 3 H) 7.24 (d, J=7.91 Hz, 1 H) 7.59 - 7.63 (m, 1 H) 8.11 - 8.14 (m, 1 H) 8.63 (dd, J=8.50, 1.76 Hz, 1 H) 8.96 (dd, J=4.10, 1.76 Hz, 1 H)	
ER-888203	 C ₂₀ H ₂₄ N ₄ O ₂	350.5	0.2060	> 2.0	5-((2R,6S)-2-methyl-6-(morpholinomethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 - 1.29 (m, 4 H) 2.65 - 2.76 (m, 2 H) 3.26 - 3.40 (m, 6 H) 4.09 - 4.16 (m, 1 H) 4.41 - 4.48 (m, 1 H) 4.80 - 4.86 (m, 18 H) 4.90 (s, 1 H) 7.23 (d, J=7.91 Hz, 1 H) 7.60 (dd, J=8.50, 4.39 Hz, 1 H) 8.11 (d, J=7.91 Hz, 1 H) 8.58 - 8.62 (m, 1 H) 8.92 - 8.95 (m, 1 H)	

FIG. 6FF

ER-888204		380.5	0.3350	> 2.0	5-((2S,6R)-2-((2S,6R)-2,6-dimethylmorpholino)methyl)-6-methylmorpholinoquinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.19 - 1.29 (m, 11 H) 2.66 - 2.80 (m, 5 H) 3.29 - 3.41 (m, 4 H) 3.55 (dd, <i>J</i> =18.16, 12.89 Hz, 2 H) 4.12 - 4.18 (m, 1 H) 4.46 (br. s., 1 H) 4.80 - 4.86 (m, 11 H) 7.24 (d, <i>J</i> =8.20 Hz, 1 H) 7.62 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.13 (d, <i>J</i> =7.91 Hz, 1 H) 8.62 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.94 - 8.97 (m, 1 H)
ER-888205		396.5	0.3550	> 2.0	5-((2S,6R)-2-((2R,6R)-2-(hydroxymethyl)-6-methylmorpholino)methyl)-6-methylmorpholinoquinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.26 (dd, <i>J</i> =12.89, 6.15 Hz, 8 H) 2.66 - 2.84 (m, 4 H) 2.98 (t, <i>J</i> =11.72 Hz, 1 H) 3.30 - 3.42 (m, 5 H) 3.56 (d, <i>J</i> =12.01 Hz, 1 H) 3.60 - 3.66 (m, 4 H) 3.83 (d, <i>J</i> =10.25 Hz, 1 H) 4.13 - 4.18 (m, 1 H) 4.80 - 4.87 (m, 12 H) 7.25 (d, <i>J</i> =7.91 Hz, 1 H) 7.60 - 7.64 (m, 1 H) 8.13 (d, <i>J</i> =7.91 Hz, 1 H) 8.61 - 8.64 (m, 1 H) 8.94 - 8.97 (m, 1 H)
ER-888285		428.5	0.1200	> 2.0	5-((2R,6S)-2-methyl-6-((4-(pyridin-2-yl)piperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.29 (d, <i>J</i> =6.15 Hz, 4 H) 2.67 - 2.78 (m, 2 H) 3.35 - 3.43 (m, 5 H) 3.53 (br. s., 2 H) 4.14 - 4.19 (m, 1 H) 4.47 (d, <i>J</i> =7.91 Hz, 1 H) 6.86 - 6.90 (m, 1 H) 7.08 (d, <i>J</i> =8.79 Hz, 1 H) 7.25 (d, <i>J</i> =7.91 Hz, 1 H) 7.62 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 7.75 - 7.79 (m, 1 H) 8.12 - 8.15 (m, 2 H) 8.61 - 8.65 (m, 1 H) 8.95 - 8.97 (m, 1 H)
ER-888286		428.5	1.3700	> 2.0	5-((2R,6S)-2-methyl-6-((4-(pyridin-4-yl)piperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.22 (d, <i>J</i> =6.15 Hz, 2 H) 2.60 - 2.80 (m, 2 H) 3.29 - 3.49 (m, 5 H) 3.56 (s, 1 H) 3.53 (s, 1 H) 3.94 - 4.13 (m, 2 H) 4.18 - 4.42 (m, 2 H) 4.43 - 4.66 (m, 1 H) 4.83 - 5.07 (m, 5 H) 7.25 - 7.48 (m, 2 H) 7.59 - 7.75 (m, 1 H) 8.18 (d, <i>J</i> =7.91 Hz, 1 H) 8.37 (d, <i>J</i> =7.62 Hz, 2 H) 8.63 - 8.77 (m, 1 H) 8.99 - 9.03 (m, 1 H)
ER-888288		407.5	0.0220	> 10.0	N-(1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)acetamide	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.27 (d, <i>J</i> =6.45 Hz, 3 H) 1.72 - 1.85 (m, 1 H) 1.90 - 1.96 (m, 3 H) 2.09 - 2.20 (m, 2 H) 2.64 - 2.75 (m, 2 H) 3.11 - 3.20 (m, 2 H) 3.29 - 3.41 (m, 3 H) 3.73 (s, 1 H) 3.70 (s, 1 H) 3.85 - 3.92 (m, 1 H) 4.09 - 4.16 (m, 1 H) 4.41 (d, <i>J</i> =8.20 Hz, 1 H) 4.81 - 4.86 (m, 8 H) 7.23 (d, <i>J</i> =7.91 Hz, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.61 (dd, <i>J</i> =8.50, 1.47 Hz, 1 H) 8.95 (dd, <i>J</i> =4.10, 1.76 Hz, 1 H)
ER-888288		407.5	0.0050	> 10.0	N-(1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)acetamide hydrochloride	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.27 (3 H, d) 1.69 - 1.86 (2 H, m) 1.93 (3 H, s) 2.04 - 2.20 (3 H, m) 2.60 - 2.79 (3 H, m) 3.07 - 3.22 (2 H, m) 3.36 - 3.42 (2 H, m) 3.67 - 3.76 (2 H, m) 3.82 - 3.94 (1 H, m) 4.08 - 4.18 (1 H, m) 4.35 - 4.46 (1 H, m) 7.15 - 7.28 (1 H, m) 7.54 - 7.66 (1 H, m) 8.05 - 8.17 (1 H, m) 8.56 - 8.65 (1 H, m) 8.89 - 8.99 (1 H, m)

LCMS (ESI+) calcd for C23 H29 N5 O2 (M+H+) 408.5, found 408.6

FIG. 6GG

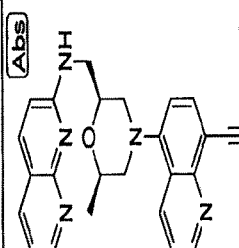
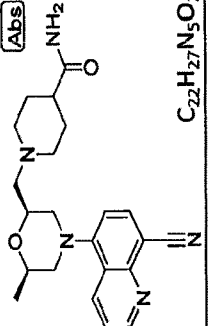
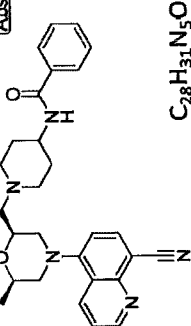
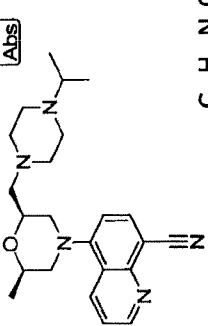
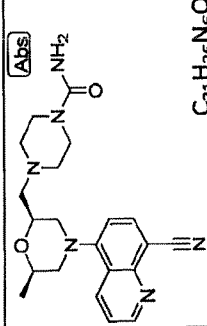
ER-888289		410.5	0.0740	> 2.0	5-((2S,6R)-2-(((1,8-naphthyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.17 (d, J=6.15 Hz, 3 H) 1.94 (s, 1 H) 2.64 (dd, J=12.01, 10.25 Hz, 2 H) 2.86 - 2.99 (m, 1 H) 3.29 - 3.48 (m, 3 H) 3.64 (s, 1 H) 3.61 (s, 1 H) 3.80 - 4.05 (m, 2 H) 4.37 - 4.57 (m, 1 H) 4.66 (dd, J=13.18, 8.20 Hz, 1 H) 4.78 - 4.98 (m, 6 H) 5.37 (dd, J=13.18, 2.64 Hz, 1 H) 7.15 (d, J=9.08 Hz, 1 H) 7.29 (d, J=7.91 Hz, 1 H) 7.42 - 7.59 (m, 1 H) 7.65 (dd, J=8.50, 4.10 Hz, 2 H) 8.04 - 8.29 (m, 2 H) 8.56 - 8.75 (m, 2 H) 8.76 - 8.90 (m, 1 H) 8.91 - 9.09 (m, 1 H)	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H ⁺) 394.4, found 394.5
ER-888320		393.5	0.0520	> 2.0	1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidine-4-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (3 H, d) 2.05 - 2.23 (3 H, m) 2.35 - 2.47 (2 H, m) 2.61 - 2.77 (2 H, m) 3.10 - 3.21 (3 H, m) 3.31 - 3.42 (2 H, m) 3.68 (1 H, br. s.) 3.74 - 3.94 (2 H, m) 4.08 - 4.21 (1 H, m) 4.38 - 4.50 (1 H, m) 7.17 - 7.27 (1 H, m) 7.54 - 7.66 (1 H, m) 8.09 - 8.16 (1 H, m) 8.57 - 8.66 (1 H, m) 8.89 - 8.98 (1 H, m)	LCMS (ESI+) calcd for C ₂₈ H ₃₁ N ₅ O ₂ (M+H ⁺) 470.5, found 470.6
ER-888321		469.6	0.0072	> 2.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)benzamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (3 H, d) 1.85 - 2.08 (2 H, m) 2.10 - 2.35 (3 H, m) 2.59 - 2.82 (2 H, m) 3.24 - 3.31 (2 H, m) 3.33 - 3.43 (3 H, m) 3.72 - 3.82 (2 H, m) 4.09 - 4.21 (2 H, m) 4.35 - 4.50 (1 H, m) 7.21 - 7.27 (1 H, m) 7.39 - 7.48 (2 H, m) 7.49 - 7.54 (1 H, m) 7.58 - 7.66 (1 H, m) 7.72 - 7.86 (2 H, m) 8.08 - 8.19 (1 H, m) 8.57 - 8.69 (1 H, m) 8.90 - 9.02 (1 H, m)	LCMS (ESI+) calcd for C ₂₈ H ₃₁ N ₅ O ₂ (M+H ⁺) 470.5, found 470.6
ER-888322		393.5	0.0630	> 2.0	5-(((2S,6R)-2-((4-isopropylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.22 (d, J=6.15 Hz, 4 H) 1.31 - 1.36 (m, 8 H) 2.63 (dd, J=12.31, 10.25 Hz, 1 H) 2.72 (dd, J=12.01, 10.25 Hz, 1 H) 2.81 - 2.87 (m, 2 H) 3.29 - 3.41 (m, 6 H) 3.43 - 3.52 (m, 1 H) 4.04 - 4.09 (m, 1 H) 4.19 - 4.25 (m, 1 H) 7.22 (d, J=8.20 Hz, 1 H) 7.58 - 7.62 (m, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.61 (dd, J=8.50, 1.76 Hz, 1 H) 8.95 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-888330		394.5	0.4570	> 2.0	4-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperazine-1-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (br. s., 1 H) 1.33 (d, J=6.15 Hz, 3 H) 2.67 - 2.84 (m, 2 H) 3.23 (br. s., 2 H) 3.27 - 3.49 (m, 6 H) 4.19 (d, J=6.15 Hz, 2 H) 4.47 (br. s., 2 H) 4.84 - 5.07 (m, 6 H) 7.30 (d, J=8.20 Hz, 1 H) 7.49 - 7.77 (m, 2 H) 8.18 (d, J=8.20 Hz, 1 H) 8.67 (dd, J=8.50, 1.76 Hz, 1 H) 8.85 - 9.06 (m, 1 H)	

FIG. 6HH

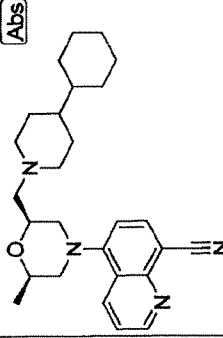
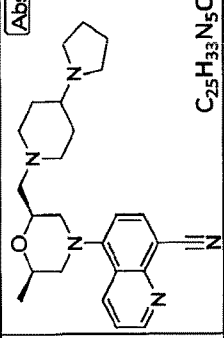
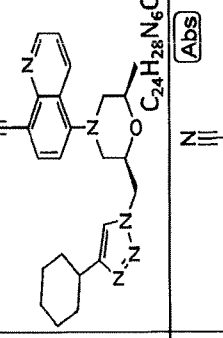
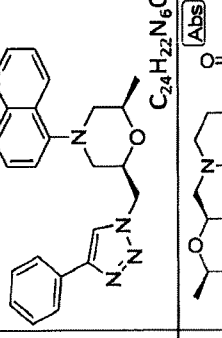
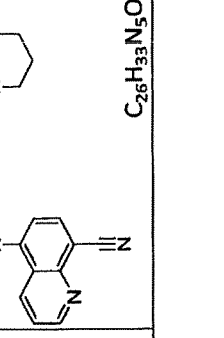
ER-888479	 C ₂₇ H ₃₆ N ₄ O	432.6	0.3220	> 2.0	5-((2S,6R)-2-((4-cyclohexyldipiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.85 - 1.04 (2 H, m) 1.11 - 1.21 (3 H, m) 1.27 (3 H, d) 1.38 - 1.41 (2 H, m) 1.66 (1 H, d) 1.69 - 1.80 (5 H, m) 1.89 - 2.06 (2 H, m) 2.61 - 2.77 (2 H, m) 2.87 - 3.06 (2 H, m) 3.20 - 3.24 (2 H, m) 3.31 - 3.43 (3 H, m) 3.63 - 3.72 (2 H, m) 4.06 - 4.18 (1 H, m) 4.37 - 4.44 (1 H, m) 7.18 - 7.27 (1 H, m) 7.56 - 7.65 (1 H, m) 8.06 - 8.16 (1 H, m) 8.57 - 8.65 (1 H, m) 8.91 - 8.98 (1 H, m)	LCMS (ESI+) calcd for C ₂₇ H ₃₆ N ₄ O (M+H ⁺) 433.6, found 433.2
ER-888480	 C ₂₅ H ₃₃ N ₅ O	419.6	0.0263	0.536	5-((2R,6S)-2-methyl-6-((4-pyrrolidin-1-yl)piperidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.29 (d, J=6.45 Hz, 2 H) 1.98 (s, 2 H) 2.12 (s, 2 H) 2.45 (br. s., 2 H) 2.64 - 2.80 (m, 1 H) 3.19 (br. s., 2 H) 3.24 - 3.51 (m, 4 H) 3.70 (br. s., 1 H) 3.81 (br. s., 1 H) 3.88 (br. s., 1 H) 4.09 - 4.20 (m, 1 H) 4.45 (br. s., 1 H) 4.77 (s, 1 H) 4.81 - 4.88 (m, 16 H) 4.92 (s, 1 H) 7.26 (d, J=8.20 Hz, 1 H) 7.64 (dd, J=8.50, 4.10 Hz, 1 H) 8.15 (d, J=7.91 Hz, 1 H) 8.58 - 8.68 (m, 1 H) 8.90 - 9.06 (m, 1 H)	
ER-888603	 C ₂₄ H ₂₈ N ₆ O	416.5	0.4060	> 2.0	5-((2R,6R)-2-((4-cyclohexyl-1H-1,2,3-triazol-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-888604	 C ₂₄ H ₂₂ N ₆ O	410.5	0.1230	> 2.0	5-((2R,6R)-2-methyl-6-((4-phenyl-1H-1,2,3-triazol-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.21 (d, J=6.15 Hz, 4 H) 2.58 - 2.73 (m, 2 H) 3.33 (d, J=12.01 Hz, 1 H) 3.44 - 3.50 (m, 1 H) 4.01 - 4.09 (m, 1 H) 4.36 - 4.42 (m, 1 H) 4.54 - 4.61 (m, 1 H) 4.63 - 4.69 (m, 1 H) 4.83 - 4.86 (m, 4 H) 7.21 (d, J=8.20 Hz, 1 H) 7.29 - 7.34 (m, 1 H) 7.38 - 7.43 (m, 2 H) 7.59 (dd, J=8.50, 4.10 Hz, 1 H) 7.77 - 7.81 (m, 2 H) 8.10 (d, J=7.91 Hz, 1 H) 8.33 (s, 1 H) 8.58 - 8.62 (m, 1 H) 8.91 - 8.94 (m, 1 H)	
ER-888605	 C ₂₆ H ₃₃ N ₅ O ₂	432.6	0.0360	> 2.0	5-((2R,6S)-2-methyl-6-((2-oxo-1,4'-bipiperidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 (d, J=6.45 Hz, 3 H) 1.32 (s, 1 H) 1.39 (s, 1 H) 1.57 - 1.82 (m, 4 H) 1.83 - 2.05 (m, 2 H) 2.17 - 2.42 (m, 2 H) 2.48 - 2.74 (m, 3 H) 2.74 - 2.90 (m, 2 H) 3.24 (br. s., 2 H) 3.30 (br. s., 1 H) 3.38 (s, 1 H) 3.35 (s, 1 H) 4.08 (d, J=8.20 Hz, 1 H) 4.23 (br. s., 1 H) 4.43 (s, 1 H) 4.40 (s, 1 H) 4.75 (br. s., 1 H) 4.80 (br. s., 1 H) 4.90 (s, 1 H) 7.22 (d, J=8.20 Hz, 2 H) 7.61 (dd, J=8.50, 4.39 Hz, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.43 (br. s., 2 H) 8.62 (d, J=8.50 Hz, 2 H) 8.95 (d, J=4.10 Hz, 1 H)	

FIG. 6II

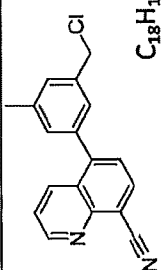
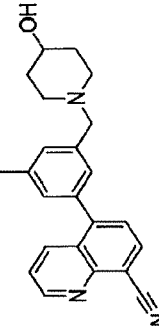
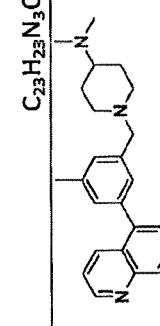
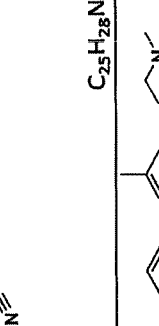
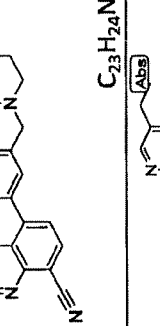
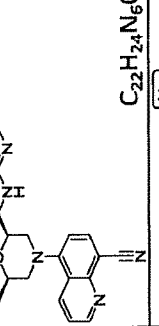
ER-888644	 <chem>C18H13ClN2</chem>	292.768	1.0940	> 2.0	5-(3-(chloromethyl)-5-methylphenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 2.48 (s, 3 H) 4.65 (s, 2 H) 7.23 (s, 1 H) 7.27 - 7.31 (m, 1 H) 7.37 (s, 1 H) 7.53 (dd, J=8.65, 4.17 Hz, 1 H) 7.58 (d, J=7.48 Hz, 1 H) 8.18 (d, J=7.48 Hz, 1 H) 8.29 (dd, J=8.55, 1.71 Hz, 1 H) 9.14 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₁₈ H ₁₄ N ₂ O (M+H+) 293.08, found: 293.26
ER-888645	 <chem>C23H23N3O</chem>	357.455	0.3220	> 2.0	5-(3-(4-hydroxypiperidin-1-yl)methyl)-5-methylphenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.52 - 1.78 (m, 2 H) 1.83 - 1.98 (m, 2 H) 2.21 (t, J=9.61 Hz, 2 H) 2.45 (s, 3 H) 2.70 - 2.88 (m, 2 H) 3.56 (s, 2 H) 3.65 - 3.85 (m, 1 H) 7.16 (s, 1 H) 7.25 - 7.31 (m, 2 H) 7.51 (dd, J=8.55, 4.06 Hz, 1 H) 7.58 (d, J=7.48 Hz, 1 H) 8.17 (d, J=7.48 Hz, 1 H) 8.33 (dd, J=8.55, 1.71 Hz, 1 H) 9.12 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₃ H ₂₃ N ₃ O (M+H+) 358.19, found: 358.41
ER-888646	 <chem>C23H23N3O</chem>	384.524	0.1380	0.4850	5-(3-(4-(dimethylamino)piperidin-1-yl)methyl)-5-methylphenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.51 - 1.68 (m, 2 H) 1.70 - 1.97 (m, 2 H) 1.99 - 2.11 (m, 2 H) 2.25 - 2.40 (m, 4 H) 2.45 (s, 3 H) 3.00 (d, 2 H) 3.56 (s, 2 H) 7.16 (s, 1 H) 7.21 (s, 1 H) 7.24 - 7.31 (m, 1 H) 7.51 (dd, J=8.55, 4.27 Hz, 1 H) 7.57 (d, J=7.48 Hz, 1 H) 8.17 (d, J=7.48 Hz, 1 H) 8.33 (dd, J=8.76, 1.71 Hz, 1 H) 9.12 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₅ H ₂₈ N ₄ (M+H+) 385.23, found: 385.46
ER-888647	 <chem>C25H28N4</chem>	356.471	0.2300	> 2.0	5-(3-methyl-5-(4-methylpiperazin-1-yl)methyl)phenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 2.31 (s, 3 H) 2.36 - 2.65 (m, 11 H) 3.59 (s, 2 H) 7.15 (s, 1 H) 7.22 (s, 1 H) 7.25 - 7.31 (m, 1 H) 7.51 (dd, J=8.65, 4.17 Hz, 1 H) 7.57 (d, J=7.48 Hz, 1 H) 8.17 (d, J=7.48 Hz, 1 H) 8.32 (dd, J=8.55, 1.71 Hz, 1 H) 9.12 (dd, J=4.27, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₃ H ₂₄ N ₄ (M+H+) 357.20, found: 357.43
ER-888701	 <chem>C23H24N6O</chem>	388.5	0.0710	> 2.0	5-((2S,6R)-2-(((5-ethylpyrimidin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-888838	 <chem>C23H25N6O</chem>	402.5	0.0020	> 2.0	5-((2S,6R)-2-(((6-amino-3,5-dimethylpyridin-2-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.22 (3 H, d) 1.96 (3 H, s) 1.98 (3 H, s) 2.57 - 2.69 (1 H, m) 2.72 - 2.85 (1 H, m) 3.30 - 3.44 (2 H, m) 3.45 - 3.63 (2 H, m) 4.03 - 4.10 (1 H, m) 4.13 - 4.25 (1 H, m) 7.13 (1 H, s) 7.16 - 7.24 (1 H, m) 7.51 - 7.63 (1 H, m) 8.03 - 8.15 (1 H, m) 8.52 - 8.61 (1 H, m) 8.86 - 8.96 (1 H, m)	LCMS (ESI+) calcd for C ₂₃ H ₂₆ N ₆ O (M+H+) 403.4, found 403.6

FIG. 6JJ

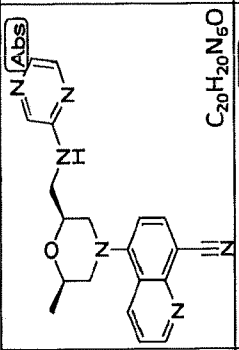
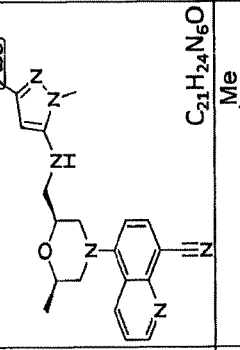
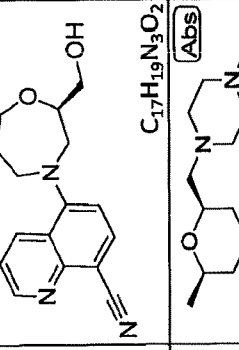
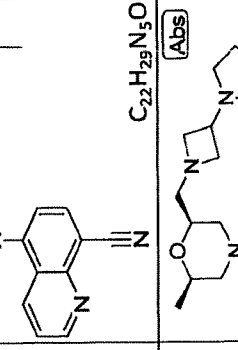
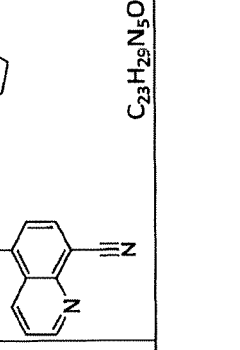
ER-888896	 <chem>Cc1ccn(c1)CNC2CCN(C2)CN3C=NC=CN3</chem> $C_{20}H_{20}N_6O$	360.4	0.2100	> 30	5-((2R,6S)-2-methyl-6-((pyrazin-2-ylamino)methyl)morpholino)quinoline-8-carbonitrile	
ER-888977	 <chem>Cc1ccn(c1)CNC2CCN(C2)CN3C=NC=CN3</chem> $C_{21}H_{24}N_6O$	376.5	0.2100	> 2.0	5-((2S,6R)-2-((1,3-dimethyl-1H-pyrazol-5-yl)amino)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-889363	 <chem>Cc1ccn(c1)CNC2CCN(C2)CN3C=NC=CN3</chem> $C_{21}H_{24}N_6O$	297.4			5-((2R,7R)-2-(hydroxymethyl)-7-methyl-1,4-oxazepan-4-yl)quinoline-8-carbonitrile	CDCI3/400 MHz: 1.36 (d, 3H, J= 6.4 Hz), 1.96 (m, 1H), 2.18 (dd, 1H, J= 4.4 & 8.4 Hz), 2.27 (m, 1H), 3.39 (dd, 1H, J= 8.8 & 12.8 Hz), 3.45-3.69 (m, 5H), 4.01 (m, 1H), 4.14 (m, 1H), 7.13 (d, 1H, J= 8.0 Hz), 7.51 (dd, 1H, J= 4.4 & 8.4 Hz), 8.02 (d, 1H, J= 8.0 Hz), 8.52 (dd, 1H, J= 1.2 & 8.4 Hz), 9.08 (dd, 1H, J= 1.2 & 4.4 Hz).
ER-889448	 <chem>Cc1ccn(c1)CNC2CCN(C2)CN3C=NC=CN3</chem> $C_{17}H_{19}N_3O_2$	379.5	0.0210	> 2.0	5-((2S,6R)-2-((4-ethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	^1H NMR (400 MHz, METHANOL- d_4) d ppm 1.17 - 1.38 (m, 4 H) 2.33 (s, 2 H) 2.54 - 2.81 (m, 4 H) 2.88 (br. s., 1 H) 2.97 - 3.13 (m, 3 H) 3.17 (br. s., 2 H) 3.29 - 3.53 (m, 3 H) 3.95 - 4.09 (m, 1 H) 4.13 (br. s., 1 H) 7.15 - 7.40 (m, 2 H) 7.56 - 7.83 (m, 2 H) 8.11 (d, J=7.91 Hz, 1 H) 8.28 (br. s., 1 H) 8.60 (d, J=8.79 Hz, 1 H) 8.90 - 9.16 (m, 1 H)
ER-889469	 <chem>Cc1ccn(c1)CNC2CCN(C2)CN3C=NC=CN3</chem> $C_{23}H_{29}N_5O$	391.5	0.0160	4.969	5-((2R,6S)-2-methyl-6-((3-(pyrrolidin-1-yl)azetidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	^1H NMR (400 MHz, METHANOL- d_4) d ppm 1.22 (d, J=6.15 Hz, 2 H) 1.88 - 2.04 (m, 3 H) 2.31 (s, 2 H) 2.53 - 2.75 (m, 2 H) 2.81 - 2.94 (m, 3 H) 2.94 - 3.09 (m, 2 H) 3.29 - 3.50 (m, 2 H) 3.61 - 3.81 (m, 2 H) 3.90 - 4.14 (m, 3 H) 7.07 - 7.29 (m, 2 H) 7.55 - 7.72 (m, 2 H) 7.99 - 8.23 (m, 2 H) 8.52 - 8.72 (m, 1 H) 8.78 - 9.01 (m, 1 H)

FIG. 6KK

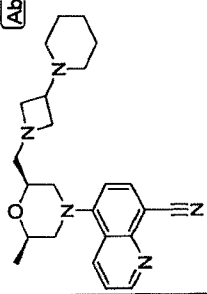
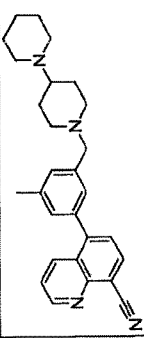
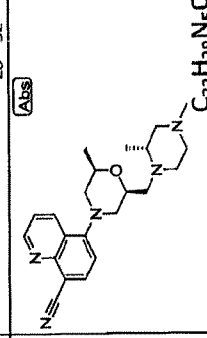
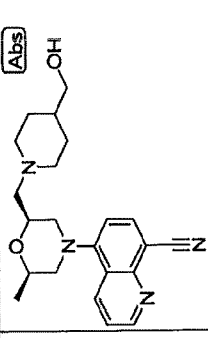
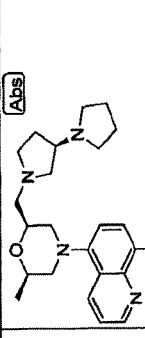
ER-889470		405.5	0.0205	6.516	5-((2R,6S)-2-methyl-6-(3-(piperidin-1-yl)azetidin-1-yl)methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.23 (d, J=6.45 Hz, 2 H) 1.54 (d, J=4.39 Hz, 2 H) 1.60 - 1.83 (m, 3 H) 2.02 (d, J=16.11 Hz, 1 H) 2.32 (s, 2 H) 2.48 - 2.75 (m, 4 H) 2.86 (s, 1 H) 3.02 (s, 1 H) 3.06 - 3.25 (m, 2 H) 3.29 - 3.39 (m, 2 H) 3.40 - 3.61 (m, 1 H) 3.72 - 3.94 (m, 2 H) 3.99 - 4.26 (m, 3 H) 4.90 (br. s., 1 H) 7.22 (d, J=7.91 Hz, 1 H) 7.18 (d, J=7.91 Hz, 1 H) 7.51 - 7.75 (m, 2 H) 8.12 (d, J=7.91 Hz, 2 H) 8.19 (br. s., 2 H) 8.39 - 8.63 (m, 1 H) 8.95 (dd, J=4.39, 1.46 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₈ H ₃₂ N ₄ (M+H+) 425.27, found: 425.48
ER-889504		424.589	0.4590	0.3170	5-(3-((1,4'-bipiperidin-1'-yl)methyl)-5-methylphenyl)morpholino-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.44 (d, J=4.91 Hz, 2 H) 1.50 - 1.69 (m, 6 H) 1.79 (d, J=11.96 Hz, 2 H) 2.00 (td, J=11.75, 2.14 Hz, 2 H) 2.29 (t, J=11.43 Hz, 1 H) 2.45 (s, 3 H) 2.51 (br. s., 4 H) 2.99 (d, J=11.75 Hz, 2 H) 3.54 (s, 2 H) 7.15 (s, 1 H) 7.21 (s, 1 H) 7.24 - 7.30 (m, 1 H) 7.46 - 7.55 (m, 1 H) 7.57 (m, J=7.48 Hz, 1 H) 8.17 (m, J=7.48 Hz, 1 H) 8.33 (dd, J=8.55, 1.71 Hz, 1 H) 9.12 (dd, J=4.27, 1.71 Hz, 1 H)	
ER-889556		379.5	0.0855	> 2.0	5-((2S,6R)-2-(((R)-2,4-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.01 - 1.10 (m, 4 H) 1.16 - 1.23 (m, 4 H) 1.87 - 1.97 (m, 1 H) 2.16 - 2.25 (m, 5 H) 2.29 - 2.38 (m, 1 H) 2.46 - 2.70 (m, 7 H) 2.84 - 2.98 (m, 2 H) 3.25 - 3.37 (m, 3 H) 3.96 - 4.12 (m, 2 H) 4.80 - 4.85 (m, 1 H) 7.11 - 7.18 (m, 1 H) 7.52 - 7.59 (m, 1 H) 8.00 - 8.08 (m, 1 H) 8.52 - 8.59 (m, 1 H) 8.86 - 8.92 (m, 1 H)	
ER-889557		380.5	0.4970	> 2.0	5-((2S,6R)-2-((4-(hydroxymethyl)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.26 (d, J=6.15 Hz, 3 H) 1.47 - 1.69 (m, 2 H) 1.75 (d, J=3.22 Hz, 1 H) 1.83 - 2.04 (m, 2 H) 2.29 (s, 1 H) 2.53 - 2.75 (m, 2 H) 2.88 (s, 1 H) 2.94 - 3.10 (m, 2 H) 3.13 - 3.25 (m, 2 H) 3.29 - 3.50 (m, 3 H) 3.53 - 3.71 (m, 2 H) 3.90 - 4.17 (m, 1 H) 4.27 - 4.50 (m, 1 H) 7.09 - 7.29 (m, 1 H) 7.53 - 7.67 (m, 1 H) 7.96 - 8.16 (m, 1 H) 8.38 (br. s., 1 H) 8.49 - 8.76 (m, 1 H) 8.77 - 8.99 (m, 1 H)	
ER-889571		405.5	0.0050	5.01	5-((2S,6R)-2-((R)-1',3'-bipyrrolidin-1'-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.18 - 1.25 (3 H, d) 1.94 - 2.01 (3 H, m) 2.29 - 2.36 (4 H, m) 2.60 - 2.73 (4 H, m) 2.91 - 3.00 (1 H, m) 3.09 - 3.19 (3 H, m) 3.32 - 3.40 (2 H, m) 7.15 - 7.26 (3 H, m) 7.58 - 7.63 (1 H, m) 7.64 - 7.71 (2 H, m) 8.08 - 8.16 (1 H, m) 8.43 - 8.49 (2 H, m) 8.57 - 8.66 (1 H, m) 8.91 - 9.01 (1 H, m)	LCMS (ESI+) calcd for C ₂₄ H ₃₁ N ₅ O (M+H+) 406.5, found 406.4

FIG. 6LL

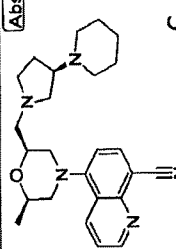
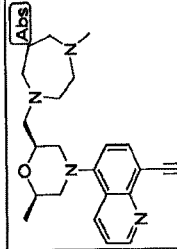
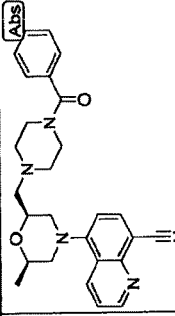
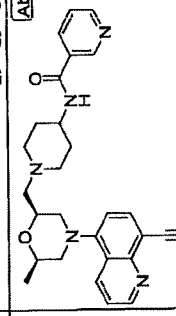
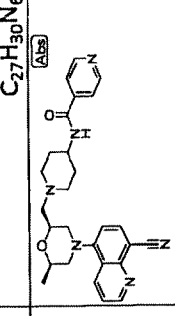
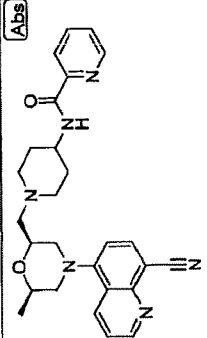
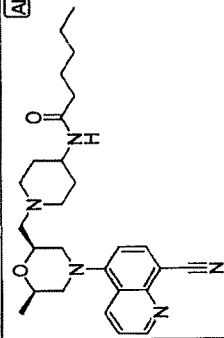
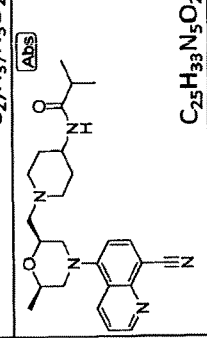
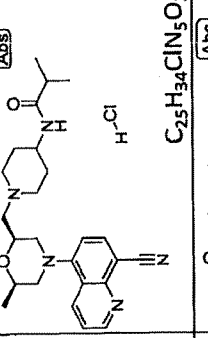
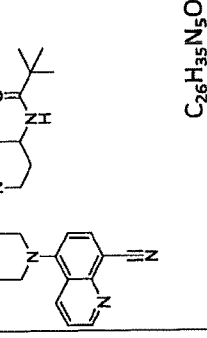
ER-889572	 C ₂₅ H ₃₃ N ₅ O	419.6	0.2515	> 2.0	5-((2R,6S)-2-methyl-6-((R)-3-(piperidin-1-yl)pyrrolidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.23 (d, J=6.15 Hz, 3 H) 2.22 (br. s., 2 H) 2.29 (s, 4 H) 2.55 - 2.81 (m, 2 H) 2.93 (s, 2 H) 3.04 - 3.25 (m, 2 H) 3.29 - 3.40 (m, 2 H) 3.45 (br. s., 3 H) 3.66 (br. s., 3 H) 3.90 - 4.18 (m, 2 H) 4.32 (d, J=7.91 Hz, 1 H) 7.04 - 7.27 (m, 4 H) 7.38 - 7.61 (m, 1 H) 7.66 (d, J=8.20 Hz, 3 H) 7.97 - 8.12 (m, 1 H) 8.59 (d, J=7.62 Hz, 1 H) 8.92 (d, J=2.64 Hz, 1 H) 8.82 - 9.00 (m, 1 H)
ER-889601	 C ₂₅ H ₃₃ N ₅ O	379.5	0.0185	9.4	5-((2R,6S)-2-methyl-6-((4-methyl-1,4-diazepan-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.22 (dd, J=6.15, 0.88 Hz, 4 H) 2.31 (s, 1 H) 2.58 - 2.86 (m, 8 H) 3.30 - 3.46 (m, 3 H) 3.51 (br. s., 2 H) 3.79 (br. s., 3 H) 3.91 - 4.11 (m, 2 H) 4.13 - 4.26 (m, 1 H) 7.04 - 7.30 (m, 2 H) 7.31 - 7.46 (m, 6 H) 7.49 - 7.70 (m, 2 H) 7.76 - 8.00 (m, 2 H) 8.04 - 8.19 (m, 2 H) 8.47 - 8.62 (m, 1 H) 8.78 - 8.95 (m, 1 H)
ER-889602	 C ₂₇ H ₂₉ N ₅ O ₂	455.6	0.0530	> 2.0	5-((2S,6R)-2-((4-benzoylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.06 (s, 1 H) 1.22 (d, J=6.45 Hz, 1 H) 1.30 (s, 1 H) 1.40 (s, 1 H) 1.47 (s, 1 H) 1.69 (br. s., 1 H) 1.92 (br. s., 1 H) 2.26 (s, 1 H) 2.51 (s, 1 H) 2.66 (s, 1 H) 2.62 (s, 1 H) 3.01 (s, 1 H) 3.17 (br. s., 1 H) 3.21 - 3.30 (m, 2 H) 3.34 (br. s., 1 H) 3.39 (br. s., 1 H) 3.87 (s, 1 H) 4.06 (br. s., 1 H) 4.15 (br. s., 1 H) 4.21 (s, 1 H) 4.37 (s, 1 H) 4.84 (s, 2 H) 5.00 (br. s., 1 H) 7.22 (d, J=8.20 Hz, 1 H) 7.50 (br. s., 1 H) 7.59 (br. s., 1 H) 7.82 (br. s., 1 H) 8.12 (d, J=7.62 Hz, 1 H) 8.21 (br. s., 1 H) 8.35 - 8.56 (m, 1 H) 8.56 - 8.78 (m, 1 H) 8.93 (d, J=4.10 Hz, 1 H)
ER-889728	 C ₂₇ H ₂₉ N ₅ O ₂	470.6	0.0370	> 2.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)nicotinamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.06 (s, 1 H) 1.22 (d, J=6.45 Hz, 1 H) 1.30 (s, 1 H) 1.40 (s, 1 H) 1.47 (s, 1 H) 1.69 (br. s., 1 H) 1.92 (br. s., 1 H) 2.26 (s, 1 H) 2.51 (s, 1 H) 2.66 (s, 1 H) 2.62 (s, 1 H) 3.01 (s, 1 H) 3.17 (br. s., 1 H) 3.21 - 3.30 (m, 2 H) 3.34 (br. s., 1 H) 3.39 (br. s., 1 H) 3.87 (s, 1 H) 4.06 (br. s., 1 H) 4.15 (br. s., 1 H) 4.21 (s, 1 H) 4.37 (s, 1 H) 4.84 (s, 2 H) 5.00 (br. s., 1 H) 7.22 (d, J=8.20 Hz, 1 H) 7.50 (br. s., 1 H) 7.59 (br. s., 1 H) 7.82 (br. s., 1 H) 8.12 (d, J=7.62 Hz, 1 H) 8.21 (br. s., 1 H) 8.35 - 8.56 (m, 1 H) 8.56 - 8.78 (m, 1 H) 8.93 (d, J=4.10 Hz, 1 H)
ER-889729	 C ₂₇ H ₃₀ N ₆ O ₂	470.6	0.0220	> 2.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)isonicotinamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.06 (s, 1 H) 1.22 (d, J=6.45 Hz, 1 H) 1.30 (s, 1 H) 1.40 (s, 1 H) 1.47 (s, 1 H) 1.69 (br. s., 1 H) 1.92 (br. s., 1 H) 2.26 (s, 1 H) 2.51 (s, 1 H) 2.66 (s, 1 H) 2.62 (s, 1 H) 3.01 (s, 1 H) 3.17 (br. s., 1 H) 3.21 - 3.30 (m, 2 H) 3.34 (br. s., 1 H) 3.39 (br. s., 1 H) 3.87 (s, 1 H) 4.06 (br. s., 1 H) 4.15 (br. s., 1 H) 4.21 (s, 1 H) 4.37 (s, 1 H) 4.84 (s, 2 H) 5.00 (br. s., 1 H) 7.22 (d, J=8.20 Hz, 1 H) 7.50 (br. s., 1 H) 7.59 (br. s., 1 H) 7.82 (br. s., 1 H) 8.12 (d, J=7.62 Hz, 1 H) 8.21 (br. s., 1 H) 8.35 - 8.56 (m, 1 H) 8.56 - 8.78 (m, 1 H) 8.93 (d, J=4.10 Hz, 1 H)

FIG. 6MM

ER-889734	 (Abs) $C_{27}H_{30}N_6O_2$	470.6	0.2690	> 2.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)picolinamide	^1H NMR (400 MHz, METHANOL- d_4) δ ppm 1.28 (d, $J=6.15$ Hz, 3 H) 1.75 - 1.97 (m, 2 H) 2.08 (br. s., 2 H) 2.59 - 2.84 (m, 3 H) 2.84 - 3.09 (m, 2 H) 3.24 - 3.49 (m, 4 H) 3.94 - 4.22 (m, 2 H) 4.30 (br. s., 1 H) 7.26 (d, $J=8.20$ Hz, 1 H) 7.51 - 7.60 (m, 1 H) 7.64 (dd, $J=8.50, 4.39$ Hz, 1 H) 7.91 - 8.02 (m, 1 H) 8.04 - 8.30 (m, 2 H) 8.45 (s, 1 H) 8.55 - 8.82 (m, 2 H) 8.94 - 9.16 (m, 1 H)
ER-889744	 (Abs) $C_{27}H_{30}N_6O_2$	463.6	0.0590	> 2.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)hexanamide	^1H NMR (400 MHz, METHANOL- d_4) δ ppm 0.72 - 0.96 (m, 2 H) 1.13 - 1.39 (m, 4 H) 1.46 - 1.75 (m, 3 H) 1.77 (s, 1 H) 1.88 (s, 1 H) 2.03 - 2.28 (m, 2 H) 2.40 (br. s., 1 H) 2.51 - 2.80 (m, 2 H) 2.91 (br. s., 1 H) 3.06 (d, $J=6.45$ Hz, 1 H) 3.17 (br. s., 1 H) 3.24 - 3.33 (m, 2 H) 3.33 - 3.55 (m, 2 H) 3.70 (br. s., 1 H) 4.07 (br. s., 1 H) 4.20 (br. s., 1 H) 4.87 (s, 3 H) 7.24 (d, $J=8.20$ Hz, 1 H) 7.63 (dd, $J=8.50, 4.39$ Hz, 1 H) 7.85 (s, 1 H) 8.14 (d, $J=7.91$ Hz, 1 H) 8.50 (s, 1 H) 8.57 (m, 1 H) 8.97 (dd, $J=4.39, 1.46$ Hz, 1 H)
ER-889745	 (Abs) $C_{27}H_{30}N_6O_2$	435.6	0.0675	0.0052? >10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)isobutyramide	
ER-889745	 (Abs) $C_{25}H_{33}N_5O_2$ H-Cl	472.0	0.0062	> 10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)isobutyramide hydrochloride	^1H NMR (400 MHz, METHANOL- d_4) δ ppm 0.97 - 1.08 (7 H, m) 1.11 - 1.17 (2 H, m) 1.20 - 1.29 (5 H, m) 1.96 - 2.04 (2 H, m) 2.32 - 2.45 (1 H, m) 2.60 - 2.74 (2 H, m) 2.95 - 3.03 (1 H, m) 3.32 - 3.40 (2 H, m) 7.19 - 7.26 (1 H, m) 7.57 - 7.66 (1 H, m) 8.08 - 8.17 (1 H, m) 8.26 - 8.37 (5 H, m) 8.59 - 8.66 (1 H, m) 8.92 - 8.99 (1 H, m)
ER-889746	 (Abs) $C_{26}H_{35}N_5O_2$	449.6	0.1100	0.0049	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)pivalamide	^1H NMR (400 MHz, METHANOL- d_4) δ ppm 1.18 (s, 2 H) 1.28 (t, $J=6.15$ Hz, 2 H) 1.44 (s, 1 H) 1.72 - 1.90 (m, 2 H) 1.93 (br. s., 1 H) 2.02 (br. s., 1 H) 2.23 (d, $J=9.96$ Hz, 1 H) 2.57 - 2.83 (m, 2 H) 2.92 (d, $J=7.62$ Hz, 1 H) 3.08 (br. s., 1 H) 3.20 - 3.35 (m, 3 H) 3.35 - 3.56 (m, 2 H) 3.89 (br. s., 2 H) 4.13 (br. s., 1 H) 4.29 (br. s., 1 H) 4.34 (br. s., 1 H) 4.88 (s, 3 H) 7.23 - 7.45 (m, 1 H) 7.56 - 7.82 (m, 1 H) 8.11 - 8.24 (m, 1 H) 8.32 (s, 1 H) 8.66 (d, $J=8.79$ Hz, 1 H) 8.95 - 9.11 (m, 1 H)

LCMS (ESI+) calcd
for $C_{25}H_{33}N_5O_2$
(M+H+) 436.5,
found 436.6

FIG. 6NN

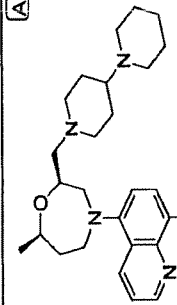
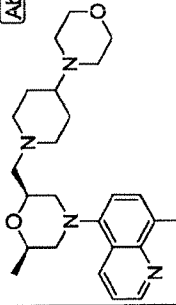
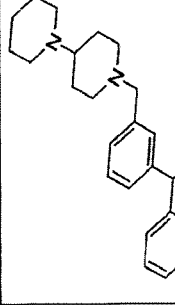
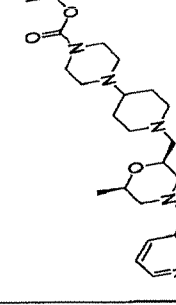
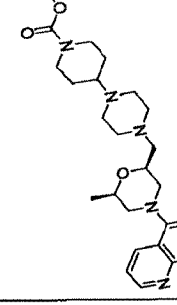
ER-889822	 $C_{27}H_{37}N_5O$	447.6	0.1470	0.155	5-((2S,7R)-2-((1,4'-bipiperidin)-1'-ylmethyl)-7-methyl-1,4-oxazepan-4-yl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CDCl ₃) δ ppm 1.30 (3 H), 1.58 (5 H), 1.77 (3 H), 1.9 (3 H), 2.02 (2 H), 2.20 (2 H), 2.35 (1 H), 2.49 (2 H), 2.67 (3 H), 2.84 (1 H), 3.04 (1 H), 3.28 (1 H), 3.49 (2 H), 3.63 (1 H), 3.96 (1 H), 4.06 (1 H), 7.12 (1 H), 7.48 (1 H), 7.99 (1 H), 8.50 (1 H), 9.05 (1 H).	LCMS (ESI+) calcd for C ₂₇ H ₃₇ N ₅ O (M+H+) 448.6, found 448.5
ER-890093	 $C_{25}H_{33}N_5O_2$	435.6	0.0400	> 2.0	5-((2R,6S)-2-methyl-6-((4-morpholinopiperidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, DMSO-d ₆) δ ppm 1.19 (3 H), 1.71 (1 H), 1.99 (1 H), 2.42 (1 H), 2.68 (6 H), 3.06 (1 H), 3.21 (1 H), 3.32 (6 H), 3.40 (2 H), 3.66 (4 H), 4.03 (1 H), 4.36 (1 H), 7.25 (1 H), 7.70 (1 H), 8.28 (1 H), 8.60 (1 H), 9.07 (1 H).	LCMS (ESI+) calcd for C ₂₅ H ₃₃ N ₅ O ₂ (M+H+) 436.27, found: 436.41
ER-890094	 $C_{27}H_{30}N_4$	410.562	0.7930	0.3870	5-(3-((1,4'-bipiperidin)-1'-ylmethyl)phenyl)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.56 (2 H), 1.81 (6 H), 2.06 (4 H), 2.78 (4 H), 3.04 (3 H), 3.61 (2 H), 7.35 (1 H), 7.47 (4 H), 7.58 (1 H), 8.18 (1 H), 8.30 (1 H), 9.13 (1 H).	LCMS (ESI+) calcd for C ₂₇ H ₃₀ N ₄ (M+H+) 411.25, found: 411.39
ER-890104	 $C_{30}H_{42}N_6O_3$	534.7	0.2880	2.845	tert-butyl 4-(1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperazine-1-carboxylate		
ER-890105	 $C_{30}H_{42}N_6O_3$	534.7	0.1020	7.002	tert-butyl 4-(4-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperazine-1-carboxylate	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.27 (d, J=6.41 Hz, 4 H), 1.40 (m, 1 H), 1.57 (s, 9 H), 1.80 (m, 2 H), 2.35 (m, 1 H), 2.50 - 2.74 (m, 12 H), 3.24 - 3.35 (m, 1 H), 3.41 (d, J=11.75 Hz, 1 H), 3.97 - 4.13 (m, 2 H), 7.09 (d, J=8.12 Hz, 1 H), 7.47 - 7.55 (m, 1 H), 8.05 (d, J=7.90 Hz, 1 H), 8.46 (dd, J=8.55, 1.71 Hz, 1 H), 9.08 (dd, J=4.06, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₃₀ H ₄₂ N ₆ O ₃ (M+H+) 535.34, found: 535.49

FIG. 600

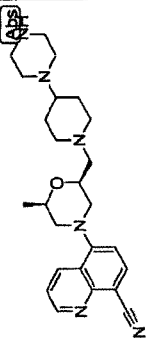
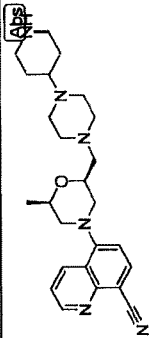
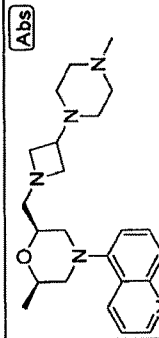
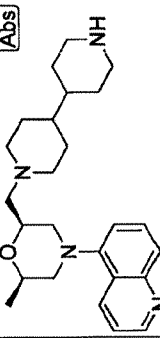
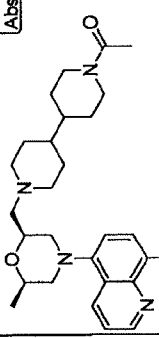
ER-890106	 <chem>Cc1cnc2c(c1)ncn2COC3CCN(C3)C4CCNCC4</chem> $C_{25}H_{34}N_6O$	434.6	0.0209	0.0973	5-((2R,6S)-2-methyl-6-((4-(piperazin-1-yl)piperidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM- <i>d</i>) δ ppm 1.26 (d, <i>J</i> =6.20 Hz, 3 H) 1.44 - 1.62 (m, 2 H) 1.62 - 1.88 (m, 4 H) 1.95 - 2.07 (m, 1 H) 2.08 - 2.26 (m, 2 H) 2.38 - 2.47 (m, 1 H) 2.47 - 2.59 (m, 4 H) 2.59 - 2.72 (m, 2 H) 2.81 - 2.95 (m, 4 H) 3.03 - 3.15 (m, 1 H) 3.23 - 3.33 (m, 1 H) 3.33 - 3.50 (m, 1 H) 3.50 - 3.62 (m, 1 H) 3.94 - 4.11 (m, 2 H) 7.00 - 7.14 (m, 1 H) 7.50 (dd, <i>J</i> =8.55, 4.27 Hz, 1 H) 7.97 - 8.08 (m, 1 H) 8.45 (dd, <i>J</i> =8.55, 1.71 Hz, 1 H) 9.00 - 9.12 (m, 1 H)	LCMS (ESI+) calcd for $C_{25}H_{34}N_6O$ (M+H) ⁺ 435.28, found: 435.41
ER-890107	 <chem>Cc1cnc2c(c1)ncn2COC3CCN(C3)C4CCNCC4</chem> $C_{25}H_{34}N_6O$	434.6	0.2173	0.7285	5-((2R,6S)-2-methyl-6-((4-(piperidin-4-yl)piperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM- <i>d</i>) δ ppm 1.26 (d, <i>J</i> =6.20 Hz, 3 H) 1.39 (qd, <i>J</i> =12.03, 4.06 Hz, 2 H) 1.82 (m, 2 H) 2.32 (tt, <i>J</i> =11.43, 3.63 Hz, 1 H) 2.48 (d, <i>J</i> =6.20 Hz, 1 H) 2.44 - 2.77 (m, 5 H) 3.13 - 3.16 (m, 2 H) 3.29 (dt, <i>J</i> =11.70, 1.95 Hz, 1 H) 3.36 - 3.48 (m, 1 H) 3.95 - 4.15 (m, 2 H) 7.09 (d, <i>J</i> =7.90 Hz, 1 H) 7.51 (dd, <i>J</i> =8.55, 4.27 Hz, 1 H) 8.04 (d, <i>J</i> =7.90 Hz, 1 H) 8.46 (dd, <i>J</i> =8.55, 1.71 Hz, 1 H) 9.08 (dd, <i>J</i> =4.06, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for $C_{25}H_{34}N_6O$ (M+H) ⁺ 435.28, found: 435.41
ER-890108	 <chem>Cc1cnc2c(c1)ncn2COC3CCN(C3)C4CCNCC4</chem> $C_{25}H_{34}N_6O$	420.6	0.1570	> 2.0	5-((2R,6S)-2-methyl-6-((3-(4-methylpiperazin-1-yl)azetidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.11 - 1.30 (m, 3 H) 1.35 - 1.46 (m, 1 H) 2.04 (s, 1 H) 2.45 (br. s., 1 H) 2.55 - 2.81 (m, 3 H) 2.87 - 3.03 (m, 6 H) 3.05 - 3.15 (m, 1 H) 3.20 (br. s., 1 H) 3.29 - 3.41 (m, 3 H) 3.42 - 3.67 (m, 3 H) 4.07 (br. s., 1 H) 4.10 - 4.23 (m, 1 H) 4.90 (br. s., 1 H) 7.23 (d, <i>J</i> =8.20 Hz, 2 H) 7.61 (dd, <i>J</i> =8.50, 4.10 Hz, 1 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.34 (br. s., 2 H) 8.55 - 8.78 (m, 1 H) 8.90 - 9.04 (m, 1 H)	
ER-890112	 <chem>Cc1cnc2c(c1)ncn2COC3CCN(C3)C4CCNCC4</chem> $C_{24}H_{32}N_6O$	433.6	0.0290	0.103	5-((2S,6R)-2-((4,4'-bipiperidin]-1-ylmethyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, DICHLOROMETHANE- <i>d</i> ₂) δ ppm 1.19 - 1.41 (m, 6 H) 1.47 - 1.62 (m, 4 H) 1.76 - 1.89 (m, 5 H) 2.42 - 2.54 (m, 2 H) 2.59 - 2.66 (m, 2 H) 2.71 - 2.82 (m, 3 H) 2.90 - 2.96 (m, 1 H) 3.24 - 3.40 (m, 6 H) 3.61 (d, <i>J</i> =12.01 Hz, 1 H) 3.98 - 4.06 (m, 1 H) 4.36 (dd, <i>J</i> =9.96, 7.62 Hz, 1 H) 5.30 - 5.31 (m, 1 H) 7.05 (d, <i>J</i> =7.91 Hz, 1 H) 7.52 (dd, <i>J</i> =8.50, 4.10 Hz, 1 H) 8.01 (d, <i>J</i> =7.91 Hz, 1 H) 8.36 (s, 3 H) 8.47 (dd, <i>J</i> =8.50, 1.46 Hz, 1 H) 9.00 - 9.02 (m, 1 H)	
ER-890113	 <chem>Cc1cnc2c(c1)ncn2COC3CCN(C3)C4CCNCC4</chem> $C_{28}H_{37}N_5O_2$	475.6	0.1200	> 2.0	5-((2S,6R)-2-((1'-acetyl-[4,4'-bipiperidin]-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		

FIG. 6PP

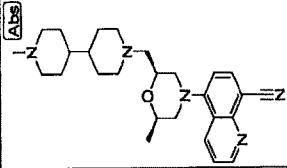
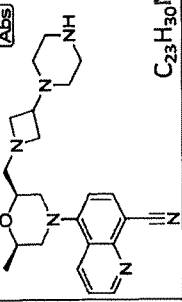
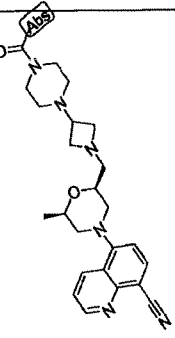
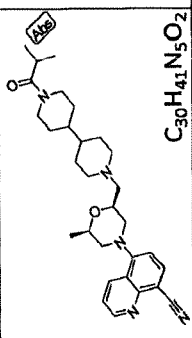
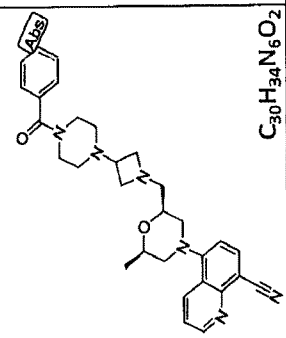
ER-890114		$C_{27}H_{37}N_5O$	447.6	0.0045	0.0665	5-((2R,6S)-2-methyl-6-((1'-methyl-[4,4'-bipiperidin]-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.27 (d, <i>J</i> =6.15 Hz, 3 H) 1.49 (br. s., 3 H) 1.55 (s, 2 H) 1.59 (s, 1 H) 1.86 (s, 1 H) 1.99 (s, 2 H) 2.33 (s, 3 H) 2.51 - 2.79 (m, 3 H) 2.82 (s, 2 H) 2.90 - 3.08 (m, 3 H) 3.10 - 3.26 (m, 2 H) 3.26 - 3.33 (m, 2 H) 3.39 (d, <i>J</i> =12.60 Hz, 2 H) 3.50 (d, <i>J</i> =10.84 Hz, 2 H) 3.57 - 3.78 (m, 2 H) 4.12 (d, <i>J</i> =6.15 Hz, 1 H) 4.43 (br. s., 2 H) 4.52 - 4.68 (m, 1 H) 4.77 - 5.03 (m, 6 H) 7.16 - 7.42 (m, 3 H) 7.58 - 7.79 (m, 2 H) 8.14 (d, <i>J</i> =7.91 Hz, 1 H) 8.30 (br. s., 2 H) 8.64 (dd, <i>J</i> =8.50, 1.47 Hz, 2 H) 8.97 (dd, <i>J</i> =4.39, 1.46 Hz, 2 H)
ER-890119		$C_{23}H_{30}N_6O$	406.5	0.0110	0.141	5-((2R,6S)-2-methyl-6-((3-(piperazin-1-yl)azetidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.25 (d, <i>J</i> =6.45 Hz, 3 H) 2.52 - 2.78 (m, 6 H) 3.01 - 3.25 (m, 4 H) 3.29 - 3.53 (m, 5 H) 3.97 - 4.16 (m, 3 H) 4.16 - 4.44 (m, 4 H) 7.23 (d, <i>J</i> =8.20 Hz, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.05 - 8.21 (m, 2 H) 8.60 (dd, <i>J</i> =8.50, 1.76 Hz, 2 H) 8.89 - 9.11 (m, 1 H)
ER-890120		$C_{25}H_{32}N_6O_2$	448.6	0.1340	> 2.0	5-((2S,6R)-2-((3-(4-acetyl)piperazin-1-yl)azetidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.24 (d, <i>J</i> =6.15 Hz, 3 H) 2.00 (s, 1 H) 2.06 (s, 3 H) 2.31 - 2.41 (m, 4 H) 2.61 - 2.74 (m, 2 H) 3.21 - 3.25 (m, 1 H) 3.29 - 3.39 (m, 3 H) 3.52 - 3.60 (m, 4 H) 3.89 - 3.98 (m, 2 H) 4.04 - 4.09 (m, 1 H) 4.14 - 4.22 (m, 3 H) 4.85 (s, 5 H) 7.23 (d, <i>J</i> =7.91 Hz, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.32 (s, 2 H) 8.58 - 8.62 (m, 1 H) 8.95 (dd, <i>J</i> =4.10, 1.76 Hz, 1 H)
ER-890121		$C_{30}H_{41}N_5O_2$	503.7	0.2420	> 2.0	5-((2S,6R)-2-((1'-isobutyl-4-bipiperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 0.98 - 1.24 (m, 6 H) 1.29 (d, <i>J</i> =6.15 Hz, 2 H) 1.46 (br. s., 1 H) 1.51 - 1.69 (m, 2 H) 1.70 - 1.85 (m, 2 H) 1.95 - 2.18 (m, 2 H) 2.33 (s, 1 H) 2.43 - 2.63 (m, 1 H) 2.63 - 2.83 (m, 2 H) 2.87 - 3.13 (m, 3 H) 3.17 - 3.34 (m, 3 H) 3.34 - 3.53 (m, 2 H) 3.67 (d, <i>J</i> =1.43 Hz, 2 H) 4.04 - 4.26 (m, 2 H) 4.49 (br. s., 1 H) 4.59 (d, <i>J</i> =12.31 Hz, 1 H) 4.87 (s, 3 H) 7.15 - 7.42 (m, 2 H) 7.59 - 7.81 (m, 1 H) 8.15 (d, <i>J</i> =7.91 Hz, 1 H) 8.25 (s, 1 H) 8.59 - 8.80 (m, 1 H) 8.94 - 9.16 (m, 1 H)
ER-890122		$C_{30}H_{34}N_6O_2$	510.6	0.0600	6.11	5-((2S,6R)-2-((3-(4-benzoylpiperazin-1-yl)azetidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.26 (d, <i>J</i> =6.15 Hz, 3 H) 2.34 (br. s., 2 H) 2.46 (br. s., 2 H) 2.54 - 2.80 (m, 2 H) 2.94 - 3.22 (m, 2 H) 3.23 - 3.44 (m, 4 H) 3.48 (br. s., 2 H) 3.61 - 3.88 (m, 4 H) 4.00 - 4.22 (m, 3 H) 4.82 - 5.05 (m, 3 H) 7.25 (d, <i>J</i> =7.91 Hz, 1 H) 7.35 - 7.55 (m, 3 H) 7.55 - 7.79 (m, 2 H) 8.02 - 8.28 (m, 1 H) 8.42 (s, 1 H) 8.52 - 8.80 (m, 2 H) 8.92 - 9.11 (m, 1 H)

FIG. 6QQ

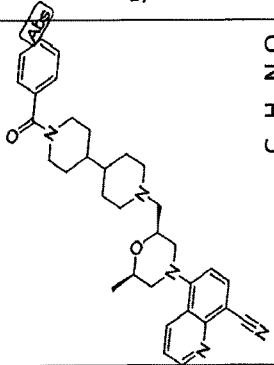
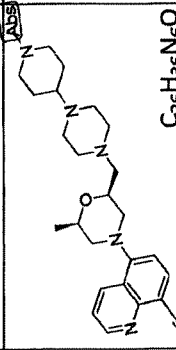
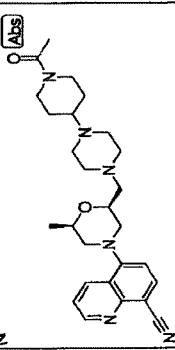
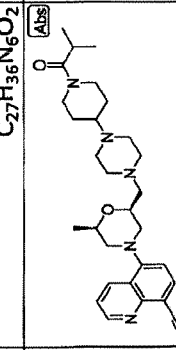
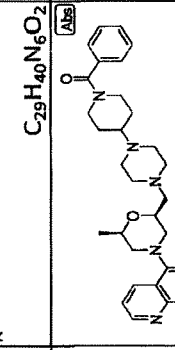
ER-890142		537.7	0.0880	1.271	5-((2S,6R)-2-((1'-benzoyl-[4,4'-bipiperidin]-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.21 (br. s., 2 H) 1.24 - 1.37 (m, 3 H) 1.40 - 1.67 (m, 4 H) 1.71 (d, J=13.48 Hz, 1 H) 1.88 (br. s., 1 H) 1.93 - 2.15 (m, 2 H) 2.31 (s, 1 H) 2.62 - 2.89 (m, 3 H) 2.90 - 3.14 (m, 3 H) 3.15 - 3.32 (m, 3 H) 3.33 - 3.53 (m, 2 H) 3.55 - 3.81 (m, 3 H) 4.07 - 4.20 (m, 1 H) 4.29 - 4.56 (m, 1 H) 4.68 (d, J=9.67 Hz, 1 H) 4.87 (d, J=0.59 Hz, 2 H) 7.09 - 7.31 (m, 2 H) 7.33 - 7.49 (m, 4 H) 7.51 - 7.69 (m, 2 H) 7.84 - 8.06 (m, 1 H) 8.13 (dd, J=7.91, 0.88 Hz, 1 H) 8.31 (d, J=0.88 Hz, 1 H) 8.49 - 8.70 (m, 1 H) 8.90 - 8.99 (m, 1 H)	LCMS (ESI+) calcd for C ₂₆ H ₃₆ N ₆ O ₂ (M+H+) 449.30, found: 449.4
ER-890186		448.6	0.0135	1.3615	5-((2R,6S)-2-methyl-6-((4-(1-methylpiperidin-4-yl)piperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.26 (d, J=6.20 Hz, 3 H) 1.48 - 1.66 (m, 2 H) 1.66 - 1.85 (m, 4 H) 1.85 - 2.00 (m, 2 H) 2.15 - 2.32 (m, 4 H) 2.37 - 2.74 (m, 12 H) 2.90 (d, 2 H) 3.29 (dt, J=11.86, 1.98 Hz, 1 H) 3.35 - 3.48 (m, 1 H) 3.92 - 4.15 (m, 2 H) 7.08 (d, J=8.12 Hz, 1 H) 7.50 (dd, J=8.55, 4.27 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.45 (dd, J=8.65, 1.82 Hz, 1 H) 9.08 (dd, J=4.06, 1.71 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₆ H ₃₆ N ₆ O ₂ (M+H+) 449.30, found: 449.4
ER-890187		476.6	0.0870	> 2.0	5-((2S,6R)-2-((4-(1-acetylpiperidin-4-yl)piperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.26 (d, J=6.20 Hz, 3 H) 1.31 - 1.50 (m, 2 H) 1.79 - 1.95 (m, 2 H) 2.09 (s, 3 H) 2.42 - 2.71 (m, 12 H) 2.95 - 3.12 (m, 1 H) 3.29 (d, J=11.75 Hz, 1 H) 3.41 (dd, J=11.96, 2.14 Hz, 1 H) 3.78 - 3.90 (m, 1 H) 3.94 - 4.16 (m, 2 H) 4.57 - 4.69 (m, 1 H) 7.09 (d, J=7.90 Hz, 1 H) 7.51 (dd, J=8.55, 4.27 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.45 (dd, J=8.65, 1.71 Hz, 1 H) 9.08 (dd, J=4.17, 1.60 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₇ H ₃₆ N ₆ O ₂ (M+H+) 477.29, found: 477.39
ER-890188		504.7	0.0870	> 2.0	5-((2S,6R)-2-((4-(1-isobutyrylpiperidin-4-yl)piperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.06 - 1.20 (m, 6 H) 1.26 (d, J=6.20 Hz, 3 H) 1.32 - 1.52 (m, 2 H) 1.89 (t, J=14.31 Hz, 2 H) 2.41 - 2.71 (m, 12 H) 2.74 - 2.88 (m, 1 H) 3.02 (t, J=12.39 Hz, 1 H) 3.29 (d, J=11.75 Hz, 1 H) 3.41 (d, J=11.96 Hz, 1 H) 3.90 - 4.18 (m, 3 H) 4.67 (d, J=12.60 Hz, 1 H) 7.09 (d, J=8.12 Hz, 1 H) 7.51 (dd, J=8.55, 4.06 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.45 (dd, J=8.65, 1.50 Hz, 1 H) 9.08 (dd, J=4.06, 1.50 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₉ H ₄₀ N ₆ O ₂ (M+H+) 505.32, found: 505.44
ER-890189		538.7	0.1100	> 2.0	5-((2S,6R)-2-((4-(1-benzoylpiperidin-4-yl)piperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.26 (d, J=6.20 Hz, 3 H) 1.32 - 1.53 (m, 2 H) 1.80 - 1.96 (m, 2 H) 2.03 (s, 1 H) 2.36 - 2.74 (m, 12 H) 2.79 (m, 1 H) 3.00 (m, 1 H) 3.29 (d, J=11.75 Hz, 1 H) 3.41 (d, J=11.75 Hz, 1 H) 3.80 (br. s., 1 H) 3.94 - 4.16 (m, 2 H) 4.74 (br. s., 1 H) 7.09 (d, J=8.12 Hz, 1 H) 7.34 - 7.45 (m, 5 H) 7.51 (dd, J=8.55, 4.27 Hz, 1 H) 8.04 (d, J=7.90 Hz, 1 H) 8.46 (dd, J=8.55, 1.50 Hz, 1 H) 9.08 (dd, J=4.27, 1.50 Hz, 1 H)	LCMS (ESI+) calcd for C ₃₂ H ₃₈ N ₆ O ₂ (M+H+) 539.31, found: 539.42

FIG. 6RR

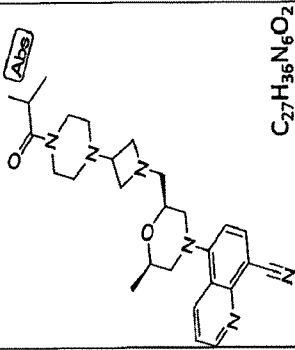
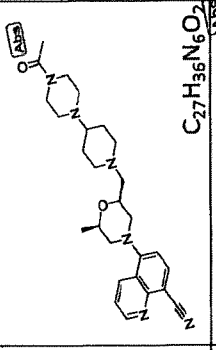
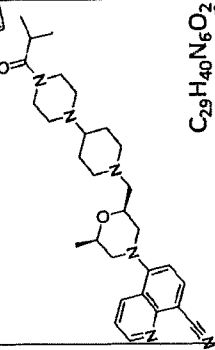
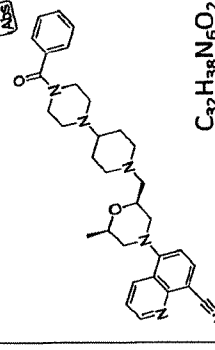
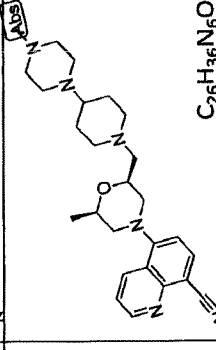
ER-890190	 C ₂₇ H ₃₆ N ₆ O ₂	476.6	0.2150	> 30	5-((2S,6R)-2-((3-(4-isobutylpiperazin-1-yl)azetidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	H NMR (400 MHz, CHLOROFORM-d1) δ ppm 1.27 (3 H), 1.67 (3 H), 1.86 (3 H), 2.09 (3 H), 2.59 (10 H), 3.28 (2 H), 3.47 (4 H), 3.64 (2 H), 4.07 (1 H), 7.08 (1 H), 7.54 (1 H), 8.03 (1 H), 8.50 (1 H), 9.08 (1 H).	LCMS (ESI+) calcd for C ₂₉ H ₄₀ N ₆ O ₂ (M+H+) 505.32, found: 505.49
ER-890219	 C ₂₇ H ₃₆ N ₆ O ₂	476.6	0.1110	6.44	5-((2S,6R)-2-((4-(4-acetylpiperazin-1-yl)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	H NMR (400 MHz, CHLOROFORM-d1) δ ppm 1.12 (6 H), 1.26 (3 H), 1.72 (2 H), 1.85 (2 H), 2.35 (3 H), 2.55 (4 H), 2.64 (4 H), 2.78 (1 H), 3.06 (1 H), 3.28 (2 H), 3.43 (1 H), 3.53 (2 H), 3.64 (2 H), 4.05 (1 H), 4.25 (1 H), 7.07 (1 H), 7.52 (1 H), 8.03 (1 H), 8.48 (1 H), 9.07 (1 H).	LCMS (ESI+) calcd for C ₃₂ H ₃₈ N ₆ O ₂ (M+H+) 539.31, found: 539.52
ER-890221	 C ₂₉ H ₄₀ N ₆ O ₂	504.7	0.1240	3.82	5-((2S,6R)-2-((4-(4-isobutylpiperazin-1-yl)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	H NMR (400 MHz, CHLOROFORM-d1) δ ppm 1.22 (3 H), 1.57 (2 H), 1.86 (2 H), 2.12 (2 H), 2.31 (1 H), 2.45 (1 H), 2.53 (2 H), 2.64 (4 H), 1.22 (1 H), 3.17 (1 H), 3.33 (4 H), 3.38 (1 H), 3.44 (1 H), 3.76 (1 H), 4.04 (1 H), 4.12 (1 H), 7.22 (1 H), 7.39 (2 H), 7.45 (3 H), 7.62 (1 H), 8.12 (1 H), 8.63 (1 H), 8.96 (1 H).	LCMS (ESI+) calcd for C ₃₂ H ₃₈ N ₆ O ₂ (M+H+) 539.31, found: 539.52
ER-890222	 C ₃₂ H ₃₈ N ₆ O ₂	538.7	0.1130	3.05	5-((2S,6R)-2-((4-(4-benzoylpiperazin-1-yl)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	H NMR (400 MHz, CHLOROFORM-d1) δ ppm 1.24 (3 H), 1.58 (2 H), 1.83 (2 H), 2.07 (1 H), 2.18 (1 H), 2.36 (4 H), 2.47 (1 H), 2.64 (1 H), 2.95 (1 H), 3.13 (1 H), 3.27 (1 H), 3.41 (1 H), 4.01 (1 H), 4.07 (1 H), 7.06 (1 H), 7.49 (1 H), 8.02 (1 H), 8.44 (1 H), 9.05 (1 H).	LCMS (ESI+) calcd for C ₂₆ H ₃₆ N ₆ O (M+H+) 449.30, found: 449.41
ER-890223	 C ₂₆ H ₃₆ N ₆ O	448.6	0.0137	0.181	5-((2R,6S)-2-methyl-6-((4-(4-methylpiperazin-1-yl)piperidin-1-yl)methylmorpholino)quinoline-8-carbonitrile		

FIG. 6SS

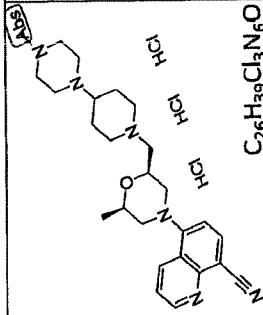
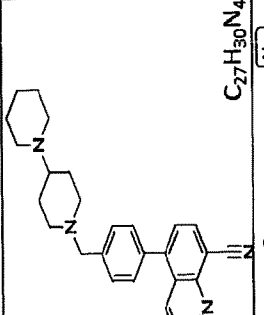
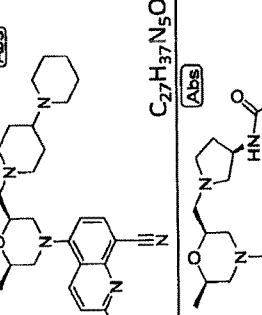
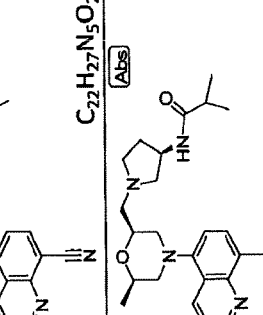
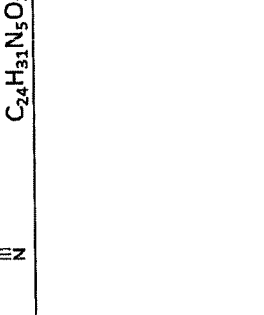
ER-890223	 <chem>C26H39Cl3N6O</chem>	558.0	0.0010	0.083	¹H NMR (400 MHz, DMSO-d₆) δ ppm 1.12 - 1.28 (m, 3 H) 2.09 - 2.43 (m, 4 H) 2.60 - 2.77 (m, 2 H) 2.83 (br. s., 3 H) 2.97 - 3.21 (m, 4 H) 3.23 - 3.53 (m, 8 H) 3.67 (br. s., 4 H) 3.74 - 4.01 (m, 6 H) 4.02 - 4.17 (m, 1 H) 4.48 (t, J=9.08 Hz, 1 H) 7.27 (m, J=8.12 Hz, 1 H) 7.70 (dd, J=8.65, 4.17 Hz, 1 H) 8.29 (m, J=8.12 Hz, 1 H) 8.62 (dd, J=8.55, 1.50 Hz, 1 H) 9.07 (dd, J=4.27, 1.50 Hz, 1 H) 10.70 (br. s., 1 H)	LCMS (ESI+) calcd for C ₂₆ H ₃₆ N ₆ O (M+H+) 449.30, found: 449.41
ER-890244	 <chem>C27H30N4</chem>	410.562	0.0225	0.0465	¹H NMR (400 MHz, METHANOL-d₄) δ ppm 1.50 (2 H), 1.65 (6 H), 1.91 (2 H), 2.08 (2 H), 2.44 (1 H), 2.67 (4 H), 3.04 (2 H), 3.61 (2 H), 7.45 (2 H), 7.52 (2 H), 8.26 (1 H), 8.37 (1 H), 9.01 (1 H).	LCMS (ESI+) calcd for C ₂₇ H ₃₀ N ₄ (M+H+) 411.25, found: 411.35
ER-890250	 <chem>C27H30N4</chem>	447.6	2.0590	0.841	¹H NMR (400 MHz, DMSO-d₆) δ ppm 1.14 (3 H), 1.35 (4 H), 1.44 (4 H), 1.63 (2 H), 1.94 (3 H), 2.39 (6 H), 2.48 (1 H), 2.55 (1 H), 2.58 (1 H), 2.61 (1 H), 2.71 (3 H), 2.84 (1 H), 3.00 (1 H), 3.98 (2 H), 7.13 (1 H), 7.54 (1 H), 8.17 (1 H), 8.42 (1 H).	LCMS (ESI+) calcd for C ₂₇ H ₃₀ N ₄ (M+H+) 448.30, found: 448.4
ER-890252	 <chem>C27H37N5O2</chem>	393.5	0.0330	> 10.0	¹H NMR (400 MHz, CHLOROFORM-d₁) δ ppm 1.25 (3 H), 1.80 (1 H), 1.94 (2 H), 1.99 (1 H), 2.35 (1 H), 2.65 (3 H), 2.78 (1 H), 2.84 (1 H), 2.92 (1 H), 3.13 (1 H), 3.27 (2 H), 3.37 (1 H), 4.04 (1 H), 4.22 (1 H), 4.59 (1 H), 6.84 (1 H), 7.05 (1 H), 7.50 (1 H), 7.99 (1 H), 8.43 (1 H), 9.03 (1 H).	LCMS (ESI+) calcd for C ₂₇ H ₃₇ N ₅ O ₂ (M+H+) 394.22, found: 394.22
ER-890253	 <chem>C24H31N5O2</chem>	421.5	0.1610	> 10.0	¹H NMR (400 MHz, CHLOROFORM-d₁) δ ppm 1.09 (6 H), 1.24 (3 H), 1.60 (1 H), 2.28 (2 H), 2.38 (1 H), 2.66 (6 H), 3.01 (1 H), 3.27 (1 H), 3.37 (1 H), 4.03 (2 H), 4.42 (1 H), 6.02 (1 H), 7.05 (1 H), 7.50 (1 H), 7.98 (1 H), 8.43 (1 H), 9.02 (1 H).	LCMS (ESI+) calcd for C ₂₄ H ₃₁ N ₅ O ₂ (M+H+) 422.25, found: 422.31

FIG. 6UU

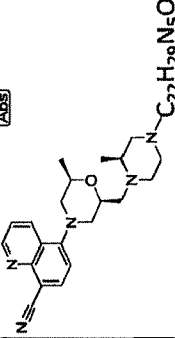
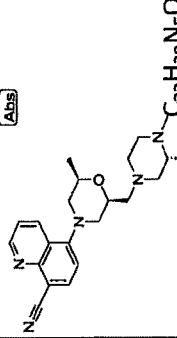
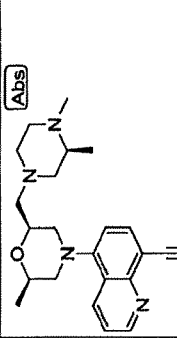
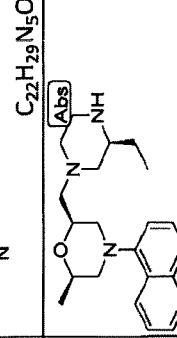
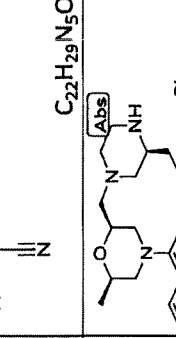
ER-890345	 (Abs) $C_{22}H_{29}N_5O$	379.5	0.0180	> 2.0	5-((2S,6R)-2-(((S)-2,4-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-890346	 (Abs) $C_{22}H_{29}N_5O$	379.5	0.0240	> 2.0	5-((2S,6R)-2-(((R)-3,4-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-890831	 (Abs) $C_{22}H_{29}N_5O$	379.5	0.0051	> 10.0	5-((2S,6R)-2-(((S)-3,4-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.05 (3 H, d) 1.17 - 1.22 (3 H, m) 1.89 - 1.98 (1 H, m) 2.27 (4 H, s) 2.30 - 2.37 (2 H, m) 2.39 - 2.46 (1 H, m) 2.46 - 2.67 (3 H, m) 2.72 - 2.81 (1 H, m) 2.82 - 2.97 (2 H, m) 3.26 - 3.40 (2 H, m) 3.92 - 4.05 (1 H, m) 4.07 - 4.18 (1 H, m) 7.09 - 7.19 (1 H, m) 7.50 - 7.59 (1 H, m) 7.99 - 8.08 (1 H, m) 8.49 - 8.61 (1 H, m) 8.84 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₂ H ₂₉ N ₅ O (M+H ⁺) 380.5, found 380.3
ER-890963	 (Abs) $C_{22}H_{29}N_5O$	379.5	0.0005	> 10.0	5-((2S,6R)-2-(((S)-3-ethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.96 (3 H, t) 1.20 (3 H, d) 1.52 - 1.64 (2 H, m) 2.10 - 2.23 (1 H, m) 2.29 - 2.43 (1 H, m) 2.52 - 2.63 (3 H, m) 2.66 - 2.74 (1 H, m) 3.00 - 3.18 (4 H, m) 3.29 - 3.42 (2 H, m) 3.98 - 4.07 (1 H, m) 4.08 - 4.20 (1 H, m) 7.15 - 7.23 (1 H, m) 7.54 - 7.64 (1 H, m) 8.07 - 8.15 (1 H, m) 8.43 - 8.53 (1 H, m) 8.57 - 8.66 (1 H, m) 8.88 - 8.99 (1 H, m)	LCMS (ESI+) calcd for C ₂₂ H ₂₉ N ₅ O (M+H ⁺) 380.5, found 380.2
ER-890963	 (Abs) $C_{22}H_{31}Cl_2N_5O$	452.4	0.0085	> 10.0	5-((2S,6R)-2-(((S)-3-ethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile dithydrochloride		

FIG. 6VV

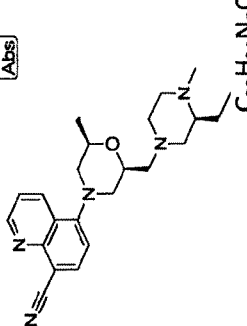
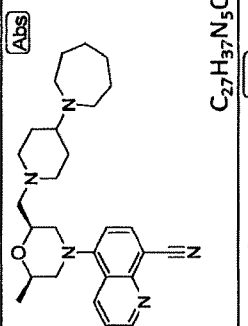
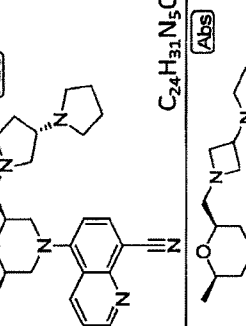
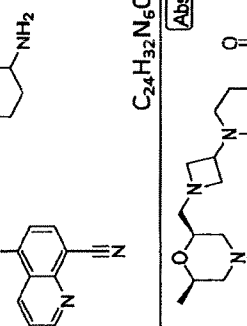
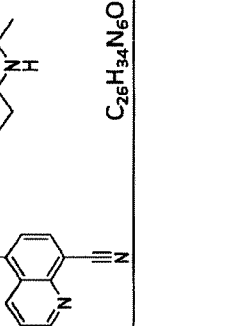
ER-890964	 (Abs) $C_{23}H_{31}N_5O$	393.5	0.0009	> 10.0	5-((2S,6R)-2-(((S)-3-ethyl-4-methylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.86 (t, J=7.62 Hz, 2 H) 1.18 - 1.40 (m, 4 H) 1.48 - 1.76 (m, 2 H) 1.82 - 2.10 (m, 2 H) 2.15 (s, 1 H) 2.19 - 2.33 (m, 4 H) 2.44 (dd, J=12.89, 6.45 Hz, 1 H) 2.54 (dd, J=12.89, 5.57 Hz, 1 H) 2.59 - 2.79 (m, 3 H) 2.83 - 3.06 (m, 1 H) 3.26 (dt, J=11.72, 2.05 Hz, 1 H) 3.34 - 3.56 (m, 2 H) 3.89 - 4.13 (m, 2 H) 7.06 (d, J=7.91 Hz, 1 H) 7.24 (s, 1 H) 7.48 (dd, J=8.50, 4.39 Hz, 1 H) 8.02 (d, J=8.20 Hz, 1 H) 8.32 - 8.49 (m, 1 H) 9.05 (dd, J=4.10, 1.76 Hz, 1 H)
ER-891084	 (Abs) $C_{23}H_{31}N_5O$	447.6	0.0034	0.0362	5-((2S,6R)-2-((4-azepan-1-yl)piperidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.16 - 1.31 (m, 3 H) 1.71 (br. s., 4 H) 1.74 - 1.85 (m, 2 H) 1.88 (br. s., 3 H) 2.02 (d, J=9.38 Hz, 2 H) 2.10 - 2.30 (m, 2 H) 2.35 (s, 1 H) 2.45 - 2.74 (m, 4 H) 3.12 - 3.41 (m, 9 H) 3.99 - 4.23 (m, 2 H) 4.87 (s, 4 H) 7.17 - 7.42 (m, 2 H) 7.57 - 7.84 (m, 2 H) 8.13 (d, J=7.91 Hz, 1 H) 8.52 (s, 1 H) 8.57 - 8.79 (m, 2 H) 8.82 - 9.07 (m, 2 H)
ER-891090	 (Abs) $C_{27}H_{37}N_5O$	405.5	0.0081	1.262	5-((2S,6R)-2-((S)-1,3'-bipyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.16 - 1.31 (m, 3 H) 1.71 (br. s., 4 H) 1.74 - 1.85 (m, 2 H) 1.88 (br. s., 3 H) 2.02 (d, J=9.38 Hz, 2 H) 2.10 - 2.30 (m, 2 H) 2.35 (s, 1 H) 2.45 - 2.74 (m, 4 H) 3.12 - 3.41 (m, 9 H) 3.99 - 4.23 (m, 2 H) 4.87 (s, 4 H) 7.17 - 7.42 (m, 2 H) 7.57 - 7.84 (m, 2 H) 8.13 (d, J=7.91 Hz, 1 H) 8.52 (s, 1 H) 8.57 - 8.79 (m, 2 H) 8.82 - 9.07 (m, 2 H)
ER-892253	 (Abs) $C_{24}H_{31}N_5O$	420.6	0.0664	> 10.0	5-((2S,6R)-2-((3-(4-aminopiperidin-1-yl)azetidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (d, J=6.45 Hz, 2 H) 1.57 - 1.77 (m, 2 H) 2.03 (br. s., 3 H) 2.59 - 2.82 (m, 2 H) 2.92 (d, J=9.96 Hz, 2 H) 3.12 (d, J=12.01 Hz, 1 H) 3.25 - 3.49 (m, 5 H) 4.00 - 4.17 (m, 2 H) 4.17 - 4.30 (m, 1 H) 4.34 (d, J=7.03 Hz, 2 H) 7.25 (d, J=7.91 Hz, 1 H) 7.58 - 7.84 (m, 1 H) 8.06 (s, 1 H) 8.15 (d, J=8.20 Hz, 1 H) 8.63 (dd, J=8.50, 1.76 Hz, 1 H) 8.95 - 9.07 (m, 1 H)
ER-892254	 (Abs) $C_{26}H_{34}N_6O_2$	462.6	0.0696	> 10.0	N-(1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)piperidin-4-yl)acetamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.24 (d, J=6.15 Hz, 2 H) 1.35 - 1.58 (m, 2 H) 1.89 (s, 3 H) 1.95 - 2.19 (m, 2 H) 2.51 - 2.76 (m, 2 H) 2.82 (s, 1 H) 2.79 (s, 1 H) 3.22 (br. s., 1 H) 3.29 - 3.48 (m, 3 H) 3.50 - 3.77 (m, 1 H) 3.80 - 4.01 (m, 2 H) 4.01 - 4.12 (m, 1 H) 4.13 - 4.36 (m, 2 H) 7.23 (d, J=7.91 Hz, 1 H) 7.56 - 7.76 (m, 1 H) 8.12 (d, J=8.20 Hz, 1 H) 8.26 (br. s., 1 H) 8.61 (dd, J=8.50, 1.76 Hz, 1 H) 8.95 (dd, J=4.10, 1.47 Hz, 1 H)

FIG. 6WW

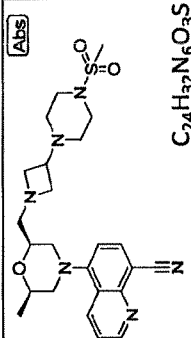
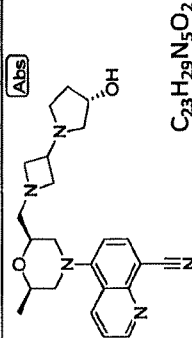
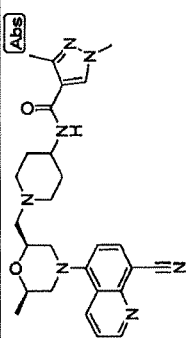
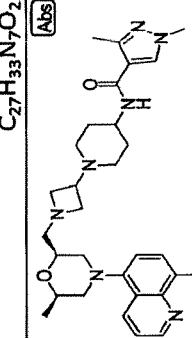
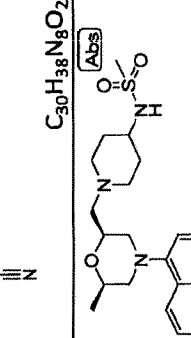
ER-892256	 C ₂₄ H ₃₂ N ₆ O ₃ S	484.6	0.3116	> 10.0	5-((2R,6S)-2-methyl-6-((3-(4-(methylsulfonyl)piperazin-1-yl)azetidin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	
ER-893881	 C ₂₃ H ₂₉ N ₅ O ₂	407.5	0.0055	> 10.0	5-((2S,6R)-2-((3-((S)-3-hydroxypyrrolidin-1-yl)azetidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	
ER-893926	 C ₂₇ H ₃₃ N ₇ O ₂	487.6	0.0123	5.9	N-((1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)-1,3-dimethyl-1H-pyrazole-4-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (d, J=6.15 Hz, 3 H) 1.76 - 2.01 (m, 2 H) 2.05 - 2.28 (m, 2 H) 2.36 (s, 3 H) 2.51 - 2.77 (m, 2 H) 3.02 - 3.25 (m, 4 H) 3.29 - 3.47 (m, 2 H) 3.50 - 3.70 (m, 2 H) 3.75 (s, 1 H) 3.80 (s, 2 H) 3.94 - 4.17 (m, 2 H) 4.41 (br. s., 1 H) 7.23 (d, J=7.91 Hz, 1 H) 7.55 - 7.72 (m, 1 H) 7.94 (s, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.24 (s, 2 H) 8.49 - 8.66 (m, 1 H) 8.79 - 9.07 (m, 1 H)
ER-893927	 C ₂₇ H ₃₃ N ₇ O ₂	542.7	0.0910	>10.0	N-((1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)piperidin-4-yl)-1,3-dimethyl-1H-pyrazole-4-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (d, J=6.15 Hz, 2 H) 1.47 - 1.66 (m, 2 H) 1.96 (s, 1 H) 1.93 (s, 1 H) 2.00 - 2.21 (m, 2 H) 2.35 (s, 3 H) 2.57 - 2.79 (m, 2 H) 2.88 (s, 1 H) 2.85 (s, 1 H) 3.29 - 3.57 (m, 3 H) 3.78 (s, 3 H) 3.86 - 4.04 (m, 2 H) 4.08 (d, J=5.57 Hz, 1 H) 4.21 (br. s., 3 H) 7.23 (d, J=7.91 Hz, 1 H) 7.42 - 7.69 (m, 2 H) 7.76 (d, J=7.62 Hz, 1 H) 7.90 (s, 1 H) 8.13 (d, J=8.20 Hz, 1 H) 8.24 (br. s., 2 H) 8.61 (d, J=8.79 Hz, 2 H) 8.91 - 9.11 (m, 1 H)
ER-893948	 C ₂₂ H ₂₉ N ₅ O ₃ S	443.6	0.0995	>10.0	N-((1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)methanesulfonamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (d, J=6.15 Hz, 3 H) 1.38 (br. s., 1 H) 1.78 (s, 1 H) 1.74 (s, 1 H) 1.83 - 1.96 (m, 1 H) 2.04 (br. s., 1 H) 2.10 (br. s., 2 H) 2.52 - 2.76 (m, 2 H) 2.77 - 2.92 (m, 2 H) 2.92 - 3.06 (m, 3 H) 3.12 (s, 1 H) 3.29 - 3.55 (m, 3 H) 4.09 (br. s., 1 H) 4.28 (br. s., 2 H) 4.74 (br. s., 1 H) 4.85 (s, 6 H) 5.46 (s, 1 H) 7.23 (d, J=7.91 Hz, 1 H) 7.61 (dd, J=8.50, 4.10 Hz, 1 H) 8.12 (d, J=7.91 Hz, 1 H) 8.34 (br. s., 2 H) 8.47 - 8.73 (m, 1 H) 8.80 - 9.00 (m, 1 H)

FIG. 6XX

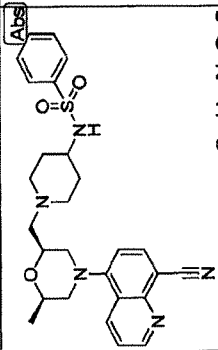
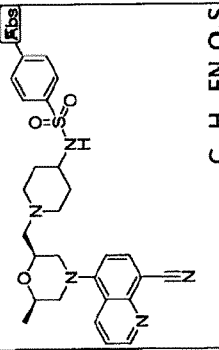
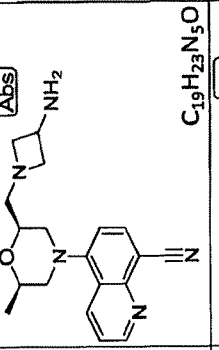
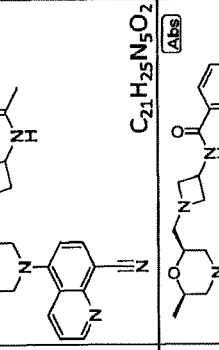
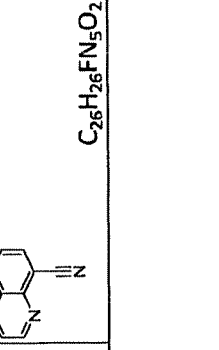
ER-894149	 $C_{27}H_{31}N_5O_3S$	505.6	0.1130	9.9	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)benzenesulfonamide	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.23 (d, <i>J</i> =6.15 Hz, 3 H) 1.58 - 1.85 (m, 2 H) 1.85 - 1.98 (m, 2 H) 2.04 (s, 1 H) 2.54 - 2.72 (m, 2 H) 2.88 (s, 1 H) 3.02 (s, 1 H) 2.98 (s, 1 H) 3.05 - 3.25 (m, 2 H) 3.29 - 3.52 (m, 4 H) 3.96 - 4.16 (m, 1 H) 4.31 (br. s., 1 H) 7.21 (d, <i>J</i> =7.91 Hz, 1 H) 7.28 - 7.42 (m, 1 H) 7.51 - 7.69 (m, 3 H) 7.70 - 7.82 (m, 1 H) 7.82 - 7.98 (m, 1 H) 8.11 (d, <i>J</i> =8.20 Hz, 1 H) 8.23 (br. s., 1 H) 8.59 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 8.89 - 9.11 (m, 1 H)	
ER-894150	 $C_{27}H_{31}FN_5O_3S$	523.6	0.1275	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)-4-fluorobenzenesulfonamide	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.26 (d, <i>J</i> =6.45 Hz, 2 H) 1.64 - 1.90 (m, 2 H) 1.90 - 2.11 (m, 2 H) 2.54 - 2.74 (m, 2 H) 2.90 (br. s., 1 H) 2.99 - 3.24 (m, 3 H) 3.25 - 3.53 (m, 4 H) 3.96 - 4.22 (m, 1 H) 4.24 - 4.42 (m, 1 H) 7.06 - 7.17 (m, 1 H) 7.23 (d, <i>J</i> =7.91 Hz, 1 H) 7.26 - 7.45 (m, 1 H) 7.61 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 7.73 - 7.88 (m, 1 H) 7.89 - 8.03 (m, 1 H) 8.13 (d, <i>J</i> =7.91 Hz, 1 H) 8.23 (br. s., 1 H) 8.62 (dd, <i>J</i> =8.79, 1.47 Hz, 1 H) 8.93 - 9.11 (m, 1 H)	
ER-894151	 $C_{27}H_{30}FN_5O_3S$	337.4	0.0052	11.46	5-((2S,6R)-2-((3-aminoazetidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.08 - 1.30 (m, 4 H) 2.56 - 2.82 (m, 3 H) 2.83 - 3.00 (m, 2 H) 3.00 - 3.19 (m, 1 H) 3.21 - 3.43 (m, 5 H) 3.44 - 3.59 (m, 2 H) 3.59 - 3.78 (m, 1 H) 3.79 - 3.99 (m, 2 H) 4.00 - 4.11 (m, 2 H) 4.14 (br. s., 1 H) 4.52 - 4.67 (m, 1 H) 4.75 - 4.90 (m, 5 H) 7.17 - 7.31 (m, 1 H) 7.44 - 7.68 (m, 2 H) 8.07 (s, 1 H) 8.15 (d, <i>J</i> =8.20 Hz, 1 H) 8.41 (s, 2 H) 8.51 - 8.80 (m, 2 H) 8.81 - 9.04 (m, 1 H)	
ER-894152	 $C_{19}H_{23}N_5O_2$	379.5	0.0740	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)acetamide	¹ H NMR (400 MHz, METHANOL- <i>d</i> ₄) δ ppm 1.03 - 1.30 (m, 3 H) 1.94 (s, 2 H) 2.57 - 2.79 (m, 2 H) 3.00 - 3.25 (m, 2 H) 3.29 - 3.57 (m, 2 H) 3.79 (br. s., 2 H) 4.05 (br. s., 1 H) 4.17 (d, <i>J</i> =8.79 Hz, 2 H) 4.49 (s, 1 H) 4.47 (s, 1 H) 7.22 (d, <i>J</i> =8.20 Hz, 1 H) 7.55 - 7.80 (m, 1 H) 8.12 (d, <i>J</i> =7.91 Hz, 1 H) 8.39 (br. s., 1 H) 8.60 (d, <i>J</i> =8.50 Hz, 2 H) 8.95 (d, <i>J</i> =2.64 Hz, 1 H)	
ER-894153	 $C_{26}H_{26}FN_5O_2$	459.5	0.1210	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)-4-fluorobenzenamide		

FIG. 6YY

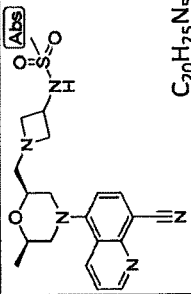
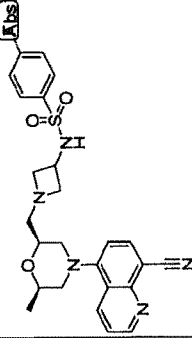
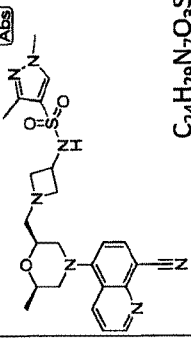
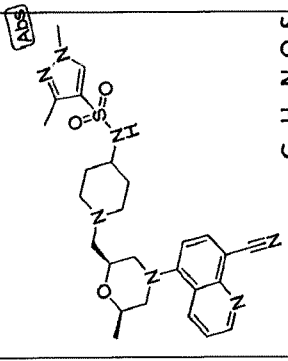
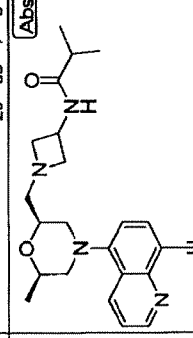
ER-894154	 <chem>C20H25N5O3S</chem> (Abs)	415.5	0.1710	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)methanesulfonamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.27 (d, J=6.15 Hz, 3 H) 2.52 - 2.78 (m, 2 H) 2.96 (s, 2 H) 3.01 - 3.21 (m, 2 H) 3.23 - 3.42 (m, 4 H) 3.55 - 3.77 (m, 2 H) 3.91 - 4.17 (m, 2 H) 4.17 - 4.40 (m, 3 H) 4.88 (s, 3 H) 7.25 (d, J=7.91 Hz, 1 H) 7.57 - 7.84 (m, 1 H) 8.15 (d, J=7.91 Hz, 1 H) 8.30 (br. s., 1 H) 8.64 (dd, J=8.50, 1.76 Hz, 1 H) 8.93 - 9.17 (m, 1 H)
ER-894155	 <chem>C20H25N5O3S</chem> (Abs)	495.6	0.2820	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)-4-fluorobenzenesulfonamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.09 - 1.33 (m, 2 H) 1.44 (s, 1 H) 2.02 (s, 1 H) 2.54 - 2.76 (m, 1 H) 2.95 - 3.23 (m, 1 H) 3.23 - 3.50 (m, 2 H) 3.62 - 3.80 (m, 1 H) 3.97 - 4.24 (m, 3 H) 6.94 - 7.16 (m, 1 H) 7.20 (d, J=8.20 Hz, 1 H) 7.26 - 7.46 (m, 1 H) 7.60 (dd, J=8.50, 4.39 Hz, 1 H) 7.73 - 8.01 (m, 1 H) 8.11 (d, J=7.91 Hz, 1 H) 8.23 (br. s., 1 H) 8.50 - 8.65 (m, 1 H) 8.95 (dd, J=4.39, 1.76 Hz, 1 H)
ER-894159	 <chem>C25H26FN5O3S</chem> (Abs)	495.6	0.1780	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)-1,3-dimethyl-1H-pyrazole-4-sulfonamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.20 (d, J=6.45 Hz, 3 H) 2.32 (s, 3 H) 2.45 (s, 1 H) 2.52 - 2.71 (m, 2 H) 2.93 - 3.14 (m, 2 H) 3.29 - 3.46 (m, 2 H) 3.60 (br. s., 2 H) 3.69 - 3.89 (m, 3 H) 3.91 - 4.12 (m, 4 H) 7.20 (d, J=8.20 Hz, 1 H) 7.46 - 7.69 (m, 1 H) 7.98 (s, 1 H) 8.10 (d, J=8.20 Hz, 1 H) 8.26 (br. s., 2 H) 8.43 - 8.63 (m, 1 H) 8.77 - 8.97 (m, 1 H)
ER-894160	 <chem>C24H29N7O3S</chem> (Abs)	523.7	0.1990	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)piperidin-4-yl)-1,3-dimethyl-1H-pyrazole-4-sulfonamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.14 - 1.41 (m, 4 H) 1.73 - 1.95 (m, 2 H) 1.95 - 2.17 (m, 3 H) 2.20 - 2.37 (m, 4 H) 2.44 (d, J=18.75 Hz, 1 H) 2.59 - 2.79 (m, 3 H) 2.97 (s, 1 H) 3.06 - 3.25 (m, 4 H) 3.29 - 3.44 (m, 3 H) 3.50 (br. s., 2 H) 3.57 - 3.75 (m, 3 H) 3.77 - 3.88 (m, 3 H) 3.94 (s, 1 H) 3.98 - 4.23 (m, 2 H) 4.24 - 4.45 (m, 2 H) 7.22 (d, J=7.91 Hz, 1 H) 7.60 (dd, J=8.50, 4.39 Hz, 2 H) 7.68 (s, 1 H) 7.83 - 8.02 (m, 1 H) 8.08 - 8.25 (m, 2 H) 8.37 (s, 1 H) 8.49 - 8.78 (m, 2 H) 8.95 (dd, J=4.39, 1.76 Hz, 1 H)
ER-894206	 <chem>C23H29N5O2</chem> (Abs)	407.5	0.0197	>10.0	N-(1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)isobutyramide	

FIG. 6ZZ

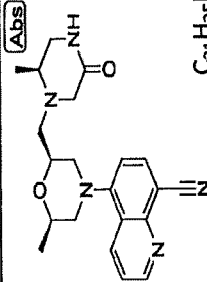
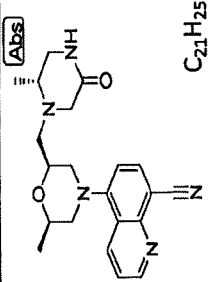
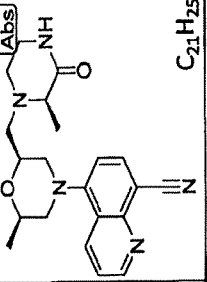
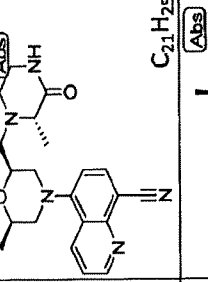
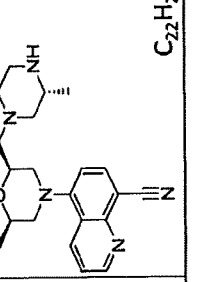
ER-894472		379.5	0.1210	>10.0	5-((2R,6S)-2-methyl-6-(((S)-2-methyl-5-oxopiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	
ER-894473		379.5	0.4060	>10.0	5-((2R,6S)-2-methyl-6-(((R)-2-methyl-5-oxopiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	
ER-894483		379.5	0.1350	>10.0	5-((2R,6S)-2-methyl-6-(((R)-2-methyl-3-oxopiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (CD3OD) δ ppm 8.93 (dd, 1H), 8.61 (dd, 1H), 8.10 (d, 1H), 7.60 (dd, 1H), 7.20 (d, 1H), 4.05 (m, 2H), 3.39-3.07 (overlapping multiplets, 6H), 2.28-2.57 (overlapping multiplets 5H), 1.32 (d, 3H), 1.21 (d, 3H) LCMS (ESI+) calcd. for: C21H25N5O2 (M+H+): 380.2, found 380.2
ER-894484		379.5	0.1470	>10.0	5-((2R,6S)-2-methyl-6-(((S)-2-methyl-3-oxopiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (CD3OD) δ ppm 8.92 (dd, 1H), 8.59 (dd, 1H), 8.10 (d, 1H), 7.59 (dd, 1H), 7.20 (d, 1H), 4.13-4.01 (m, 2H), 3.45-3.13 (overlapping m, 6H), 2.28-2.57 (overlapping multiplets 5H), 1.30 (d, 3H), 1.21 (d, 3H) LCMS (ESI+) calcd. for: C21H25N5O2 (M+H+): 380.2, found 380.2
ER-894504		393.5	0.0170	>10.0	5-((2R,6S)-2-methyl-6-((2,4,5-trimethylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (CD3OD) δ ppm 8.92 (dd, 1H), 8.58 (m, 1H), 8.07 (d, 1H), 7.58 (m, 1H), 7.17 (m, 1H), 4.11 (m, 1H), 4.02 (m, 1H), 3.40 (m, 1H), 3.31 (m, 1H), 3.27 (m, 1H), 3.00-2.77 (overlapping multiplets 2H), 2.72-2.54 (overlapping multiplets, 2H), 2.44-2.32 (m, 1H), 2.24 (d, 3H), 2.20 (m, 2H), 2.04 (m, 2H), 1.20 (m, 3H), 1.03 (m, 6H) LCMS (ESI+) calcd. for: C23H31N5O (M+H+): 394.3, found 394.3

FIG. 6AAA

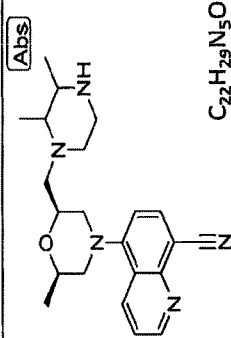
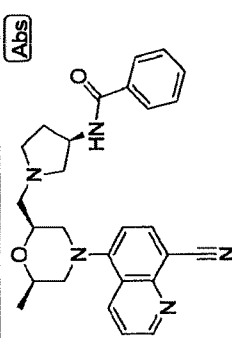
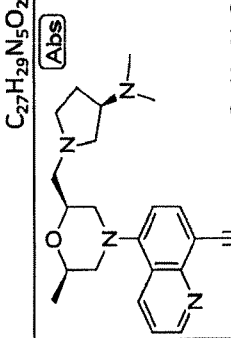
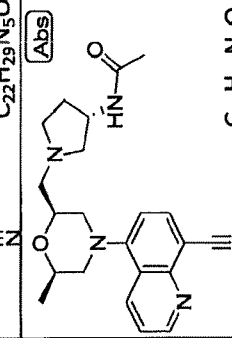
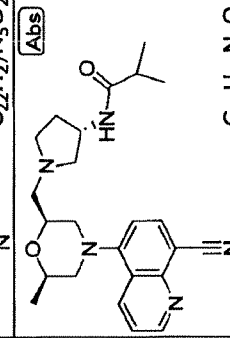
ER-894505	 [Abs] $C_{22}H_{29}N_5O$	393.5	0.0040	>10.0	5-((2R,6S)-2-methyl-6-((2,3,4-trimethylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile	^1H NMR (CD ₃ OD) δ ppm 8.93 (dd, 1H), 8.59 (m, 1H), 8.10 (d, 1H), 7.59 (m, 1H), 7.20 (dd, 1H), 4.13-4.01 (m, 2H), 3.45-3.31 (overlapping m, 4H), 3.04-2.572.35 (overlapping multiplets 4H), 2.26 (s, 3H), 2.20 (m, 1H), 1.80 (m, 1H), 1.20 (m, 3H), 1.21 (m, 6H)	LCMS (ESI+) calcd. for $C_{23}H_{31}N_5O$ (M+H+): 394.3, found 394.4
ER-894544	 [Abs] $C_{22}H_{29}N_5O_2$	455.6	0.0430	6.2	N-((R)-1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)pyrrolidin-3-yl)benzamide	^1H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.26 (3 H), 2.37 (2 H), 2.70 (6 H), 3.07 (1 H), 3.28 (1 H), 3.39 (1 H), 3.46 (1 H), 4.04 (2 H), 4.66 (1 H), 6.70 (1 H), 7.07 (1 H), 7.39 (2 H), 7.49 (2 H), 7.75 (2 H), 8.04 (1 H), 8.45 (1 H), 9.03 (1 H).	LCMS (ESI+) calcd. for $C_{27}H_{29}N_5O_2$ (M+H+) 456.24, found 456.39
ER-894545	 [Abs] $C_{27}H_{29}N_5O_2$	379.5	0.0050	>10.0	5-((2S,6R)-2-(((R)-3-(dimethylamino)pyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	^1H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (3 H), 1.91 (1 H), 2.18 (1 H), 2.57 (6 H), 2.65 (1 H), 2.75 (2 H), 2.85 (1 H), 2.97 (1 H), 3.35 (2 H), 3.4 (3 H), 4.11 (2 H), 7.23 (1 H), 7.63 (1 H), 8.14 (1 H), 8.52 (1 H), 8.64 (1 H), 8.97 (1 H).	LCMS (ESI+) calcd. for $C_{22}H_{29}N_5O$ (M+H+) 380.24, found 380.25
ER-894546	 [Abs] $C_{22}H_{27}N_5O_2$	393.5	0.0222	>10.0	N-((S)-1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)pyrrolidin-3-yl)acetamide	^1H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.25 (3 H), 1.80 (1 H), 1.94 (2 H), 1.99 (1 H), 2.35 (1 H), 2.65 (3 H), 2.78 (1 H), 2.84 (1 H), 2.92 (1 H), 3.13 (1 H), 3.27 (2 H), 3.37 (1 H), 4.04 (1 H), 4.22 (1 H), 4.59 (1 H), 6.84 (1 H), 7.05 (1 H), 7.50 (1 H), 7.99 (1 H), 8.43 (1 H), 9.03 (1 H).	LCMS (ESI+) calcd. for $C_{22}H_{27}N_5O_2$ (M+H+) 394.22, found 394.27
ER-894547	 [Abs] $C_{24}H_{31}N_5O_2$	421.5	0.0272	>10.0	N-((S)-1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)pyrrolidin-3-yl)isobutyramide	^1H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.09 (6 H), 1.24 (3 H), 1.60 (1 H), 2.28 (2 H), 2.38 (1 H), 2.66 (6 H), 3.01 (1 H), 3.27 (1 H), 3.37 (1 H), 4.03 (2 H), 4.42 (1 H), 6.02 (1 H), 7.05 (1 H), 7.50 (1 H), 7.98 (1 H), 8.43 (1 H), 9.02 (1 H).	LCMS (ESI+) calcd. for $C_{24}H_{31}N_5O_2$ (M+H+) 422.25, found 422.28

FIG. 6BBB

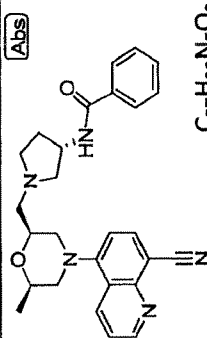
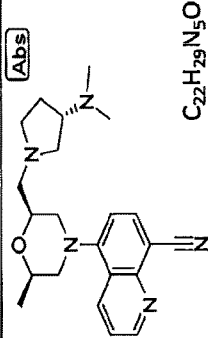
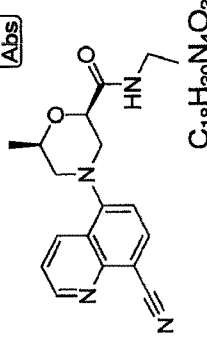
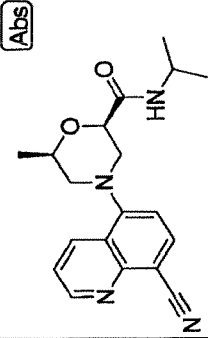
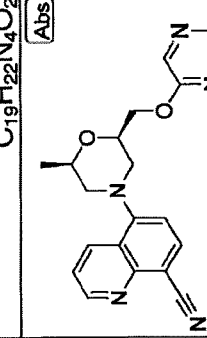
ER-894548		455.6	0.0213	4.33	N-((S)-1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)pyrrolidin-3-yl)benzamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.26 (3 H), 2.37 (2 H), 2.70 (6 H), 3.07 (1 H), 3.28 (1 H), 3.39 (1 H), 3.46 (1 H), 4.04 (2 H), 4.66 (1 H), 6.70 (1 H), 7.07 (1 H), 7.39 (2 H), 7.49 (2 H), 7.75 (2 H), 8.04 (1 H), 8.45 (1 H), 9.03 (1 H).	LCMS (ESI ⁺) calcd for C ₂₇ H ₂₉ N ₅ O ₂ (M+H ⁺): 456.24, found 456.18
ER-894549		379.5	0.0044	3.9	5-((2S,6R)-2-(((S)-3-(dimethylamino)pyrrolidin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (3 H), 1.91 (1 H), 2.18 (1 H), 2.57 (6 H), 2.65 (1 H), 2.75 (2 H), 2.85 (1 H), 2.97 (1 H), 3.35 (2 H), 3.4 (3 H), 4.11 (2 H), 7.23 (1 H), 7.63 (1 H), 8.14 (1 H), 8.52 (1 H), 8.64 (1 H), 8.97 (1 H).	LCMS (ESI ⁺) calcd for C ₂₇ H ₂₉ N ₅ O (M+H ⁺): 380.24, found 380.26
ER-894550		324.38	0.0347	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-ethyl-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.10 (2 H), 1.29 (3 H), 2.71 (2 H), 3.23 (3 H), 3.35 (1 H), 3.67 (1 H), 4.11 (1 H), 4.42 (1 H), 7.23 (1 H), 7.62 (1 H), 8.12 (1 H), 8.64 (1 H), 8.95 (1 H).	LCMS (ESI ⁺) calcd for C ₁₈ H ₂₀ N ₄ O ₂ (M+H ⁺): 325.16; Found: 325.27
ER-894551		338.41	0.0350	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-isopropyl-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.15 (6 H), 1.3 (3 H), 2.71 (2 H), 3.35 (1 H), 3.65 (1 H), 4.07 (2 H), 4.40 (1 H), 7.22 (1 H), 7.47 (1 H), 7.61 (1 H), 8.10 (1 H), 8.62 (1 H), 8.94 (1 H).	LCMS (ESI ⁺) calcd for C ₁₉ H ₂₂ N ₄ O (M+H ⁺): 339.18; Found: 339.17
ER-894552		361.4	0.1010	> 10.0	5-((2R,6R)-2-methyl-6-((pyrazin-2-yl)methyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CDCl ₃) δ ppm 1.31 (3 H), 2.73 (1 H), 2.93 (1 H), 3.33 (1 H), 3.46 (1 H), 4.13 (1 H), 4.34 (1 H), 4.43 (1 H), 4.52 (1 H), 7.13 (1 H), 7.54 (1 H), 8.07 (1 H), 8.09 (1 H), 8.16 (1 H), 8.30 (1 H), 8.49 (1 H), 9.09 (1 H).	LCMS (ESI ⁺) calcd for C ₂₀ H ₁₉ N ₅ O ₂ (M+H ⁺): 362.4, found 362.3

FIG. 6CCC

ER-894594		441.5	0.0690	>10.0	N-(1-((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)azetidin-3-yl)benzamide		1H NMR (DMSO-d6) δ ppm 9.007 (m, 1H), 8.569 (m, 1H), 8.229 (d, 1H), 7.64 (dd, 1H), 7.19 (m, 1H), 4.13 (br s, 8H), 3.39 (m, 1H), 2.62 (m, 2H), 2.45 (s, 3H), 1.35 (br s, 6H), 1.14 (d, 3H)	LCMS (ESI+) calcd. for: C23H31N5O (M+H+): 393.3; found 393.4
ER-894655		452.4	0.0010	14.72	5-((2S,6R)-2-((3,3-dimethylpiperazin-1-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile dihydrochloride			
ER-894656		466.5	0.0008	10.63	5-((2R,6S)-2-methyl-6-((3,3,4-trimethylpiperazin-1-yl)methyl)morpholino)quinoline-8-carbonitrile dihydrochloride			
ER-895194		297.30	> 10.0	> 10.0	5-((2R,6R)-2-formyl-6-methylmorpholino)quinoline-8-carbonitrile		1H NMR (400 MHz, CDCl3-d) δ ppm 1.34 (3 H, d) 2.71 - 2.77 (1 H, m) 2.85 - 2.91 (1 H, m) 3.24 (1H, d) 3.74 (1 H, d) 4.04 - 4.09 (1 H, m) 4.50 (1 H, d) 7.08 (1 H, d) 7.53 (1 H, d) 8.01 (1 H, d) 8.51 (1 H, d) 9.05 (1 H, s)	
ER-895200		297.4	0.1772	> 10.0	5-((2R,6R)-2-((R)-1-hydroxyethyl)-6-methylmorpholino)quinoline-8-carbonitrile		1H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.21 - 1.28 (m, 9 H) 1.59 (br s, 4 H) 2.04 (br s, 1 H) 2.58 - 2.65 (m, 1 H) 2.84 - 2.91 (m, 1 H) 3.28 (s, 1 H) 3.25 (s, 1 H) 3.38 (s, 1 H) 3.35 (s, 1 H) 3.78 (d, J=10.55 Hz, 1 H) 3.94 (br s, 1 H) 4.04 (d, J=6.45 Hz, 1 H) 7.08 (d, J=7.91 Hz, 1 H) 7.24 (s, 1 H) 7.49 (dd, J=8.79, 4.10 Hz, 1 H) 8.02 (d, J=7.91 Hz, 1 H) 8.43 (d, J=8.50 Hz, 1 H) 9.05 (d, J=2.64 Hz, 1 H)	

FIG. 6DDD

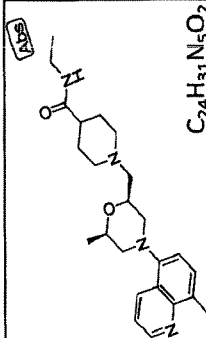
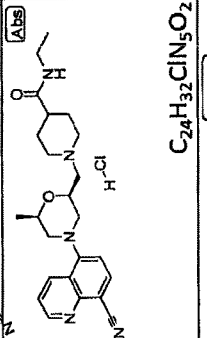
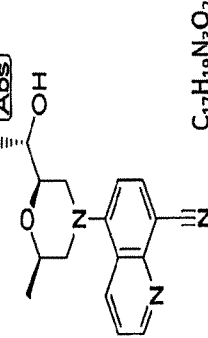
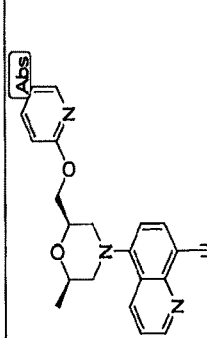
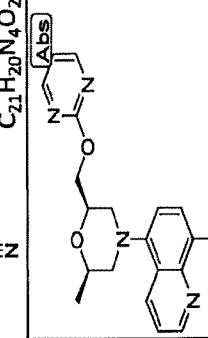
ER-895204	 $C_{24}H_{31}N_5O_2$	421.5	0.0017	> 10.0	1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)-N-ethylpiperidine-4-carboxamide	^1H NMR (400 MHz, METHANOL- d_4) δ ppm 1.00 - 1.18 (m, 2 H) 1.26 (d, $J=6.15$ Hz, 3 H) 1.96 (br s, 3 H) 2.32 (s, 2 H) 2.42 (br s, 1 H) 2.53 - 2.82 (m, 2 H) 2.93 (br s, 2 H) 3.03 - 3.25 (m, 3 H) 3.39 (s, 1 H) 3.36 (s, 1 H) 3.57 (s, 1 H) 3.55 (s, 1 H) 4.11 (br s, 1 H) 4.35 (br s, 1 H) 4.89 (br s, 1 H) 7.13 - 7.41 (m, 2 H) 7.56 - 7.72 (m, 2 H) 8.12 (d, $J=7.91$ Hz, 1 H) 8.34 (br s, 1 H) 8.48 - 8.74 (m, 1 H) 8.95 (dd, $J=4.10, 1.76$ Hz, 1 H)	
ER-895204	 $C_{24}H_{31}N_5O_2$	458.0	0.0270	> 10.0	1-(((2S,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholin-2-yl)methyl)-N-ethylpiperidine-4-carboxamide hydrochloride		
ER-895310	 $C_{24}H_{32}ClN_5O_2$	297.4	0.3940	> 10.0	5-((2R,6R)-2-((S)-1-hydroxyethyl)-6-methylmorpholino)quinoline-8-carbonitrile		
ER-895324	 $C_{17}H_{19}N_3O_2$	360.4	0.0280	> 10.0	5-((2R,6R)-2-methyl-6-((pyridin-2-yloxy)methyl)morpholino)quinoline-8-carbonitrile	^1H NMR (400 MHz, $CDCl_3$ -d) δ ppm 1.29 (3 H, d) 2.63 - 2.75 (1 H, m) 2.80 - 2.94 (1 H, m) 3.22 - 3.36 (1 H, m) 3.40 - 3.50 (1 H, m) 4.01 - 4.14 (1 H, m) 4.27 - 4.40 (2 H, m) 4.44 - 4.56 (1 H, m) 6.73 - 6.80 (1 H, m) 6.83 - 6.91 (1 H, m) 7.08 (1 H, d) 7.41 - 7.52 (1 H, m) 7.53 - 7.61 (1 H, m) 7.98 - 8.06 (1 H, m) 8.08 - 8.16 (1 H, m) 8.39 - 8.53 (1 H, m) 8.99 - 9.11 (1 H, m)	LCMS (ESI+) calcd for $C_{21}H_{20}N_4O_2$ (M+H+) 361.4, found 361.5
ER-895325	 $C_{20}H_{19}N_5O_2$	361.4	0.0345	5.351	5-((2R,6R)-2-methyl-6-((pyrimidin-2-yloxy)methyl)morpholino)quinoline-8-carbonitrile	^1H NMR (400 MHz, $CDCl_3$ -d) δ ppm 1.19 - 1.33 (3 H, d) 2.65 - 2.74 (1 H, m) 2.89 - 2.99 (1 H, m) 3.26 - 3.33 (1 H, m) 3.45 - 3.52 (1 H, m) 4.04 - 4.13 (1 H, m) 4.30 - 4.37 (1 H, m) 4.37 - 4.44 (1 H, m) 4.48 - 4.59 (1 H, m) 6.88 - 7.00 (1 H, m) 7.05 - 7.15 (1 H, m) 7.45 - 7.54 (1 H, m) 7.97 - 8.08 (1 H, m) 8.42 - 8.57 (3 H, m) 8.99 - 9.12 (1 H, m)	LCMS (ESI+) calcd for $C_{20}H_{19}N_5O_2$ (M+H+) 362.4, found 362.0

FIG. 6EEE

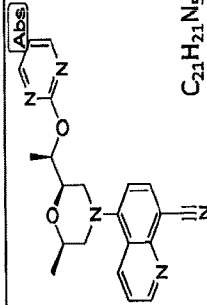
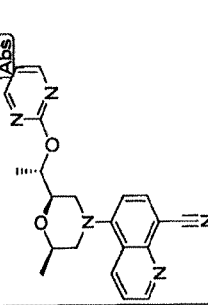
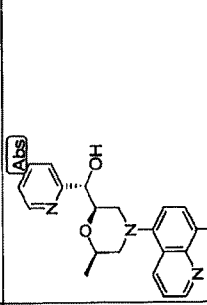
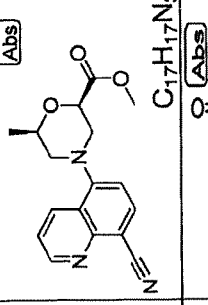
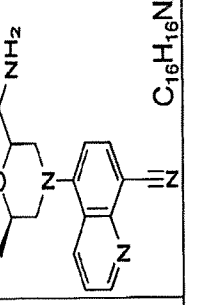
ER-895326	 <chem>C21H21N5O2</chem>	375.4	0.0380	> 10.0	5-((2R,6R)-2-methyl-6-((R)-1-(pyrimidin-2-yloxy)ethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CDCl ₃ -d) δ ppm 1.25 (3 H, d), 1.46 (3 H, d), 2.61 - 2.70 (1 H, m), 2.74 - 2.89 (1 H, m), 3.18 - 3.31 (1 H, m), 3.47 - 3.59 (1 H, m), 3.95 - 4.11 (2 H, m), 5.16 - 5.31 (1 H, m), 6.85 - 6.95 (1 H, m), 7.00 - 7.12 (1 H, m), 7.45 - 7.56 (1 H, m), 7.94 - 8.06 (1 H, m), 8.41 - 8.52 (3 H, m), 8.98 - 9.09 (1 H, m)	LCMS (ESI+) calcd for C ₂₁ H ₂₁ N ₅ O ₂ (M+H ⁺): 376.4, found 376.4
ER-895327	 <chem>C21H21N5O2</chem>	375.4	0.1750	> 10.0	5-((2R,6R)-2-methyl-6-((S)-1-(pyrimidin-2-yloxy)ethyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.84 - 0.88 (m, 1 H), 1.24 (d, J=6.15 Hz, 4 H), 1.43 (d, J=6.45 Hz, 4 H), 1.59 (s, 6 H), 2.62 - 2.69 (m, 1 H), 2.93 - 3.00 (m, 1 H), 3.27 (d, J=11.72 Hz, 1 H), 3.37 (d, J=11.43 Hz, 1 H), 4.00 - 4.07 (m, 1 H), 4.11 - 4.16 (m, 1 H), 5.34 - 5.40 (m, 1 H), 6.90 - 6.93 (m, 1 H), 7.07 (d, J=7.91 Hz, 1 H), 7.24 (s, 2 H), 7.48 (dd, J=8.50, 4.10 Hz, 1 H), 8.01 (d, J=7.91 Hz, 1 H), 8.40 - 8.44 (m, 1 H), 8.49 (d, J=4.98 Hz, 2 H), 9.03 - 9.06 (m, 1 H)	
ER-895412	 <chem>C21H21N5O2</chem>	360.4	0.0961	> 10.0	5-((2R,6R)-2-((S)-hydroxy(pyrimidin-2-yl)methyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.10 - 1.20 (3 H, m), 2.59 - 2.70 (1 H, m), 2.81 - 2.91 (1 H, m), 3.37 - 3.45 (1 H, m), 3.93 - 4.03 (1 H, m), 4.16 - 4.28 (1 H, m), 4.56 - 4.62 (1 H, m), 4.70 - 4.78 (1 H, m), 7.13 - 7.22 (1 H, m), 7.25 - 7.34 (1 H, m), 7.49 - 7.59 (2 H, m), 7.75 - 7.85 (1 H, m), 8.03 - 8.14 (1 H, m), 8.44 - 8.57 (2 H, m), 8.86 - 8.94 (1 H, m)	LCMS (ESI+) calcd for C ₂₁ H ₂₀ N ₄ O ₂ (M+H ⁺): 361.4, found 361.4
ER-895415	 <chem>C21H20N4O2</chem>	311.34	0.2367	> 10.0	(2R,6R)-methyl 4-((8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxylate	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 0.67 - 0.81 (m, 1 H), 0.86 (d, J=6.15 Hz, 4 H), 1.07 (s, 1 H), 2.24 (dd, J=12.01, 10.25 Hz, 2 H), 2.40 - 2.61 (m, 1 H), 2.79 (dt, J=11.87, 2.27 Hz, 2 H), 3.14 (dt, J=11.87, 2.42 Hz, 1 H), 3.45 - 3.67 (m, 1 H), 4.10 (dd, J=10.69, 2.49 Hz, 1 H), 6.62 (d, J=7.91 Hz, 1 H), 6.76 (s, 1 H), 7.05 (dd, J=8.50, 4.39 Hz, 1 H), 7.56 (d, J=7.91 Hz, 1 H), 7.97 (dd, J=8.50, 1.76 Hz, 1 H), 8.59 (dd, J=4.25, 1.61 Hz, 1 H)	
ER-895472	 <chem>C16H16N4O2</chem>	296.33	0.0870	> 10.0	(6R)-4-((8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.30 (3 H), 2.74 (2 H), 3.36 (1 H), 3.69 (1 H), 4.11 (2 H), 4.43 (1 H), 7.24 (1 H), 7.63 (1 H), 8.12 (1 H), 8.19 (1 H), 8.64 (1 H), 8.95 (1 H).	LCMS (ESI+) calcd for C ₁₆ H ₁₆ N ₄ O ₂ (M+H ⁺): 297.13; Found: 297.27

FIG. 6FFF

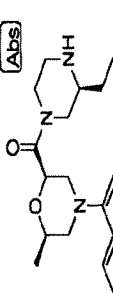
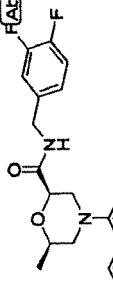
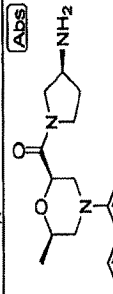
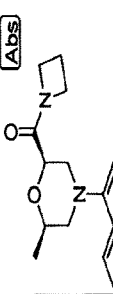
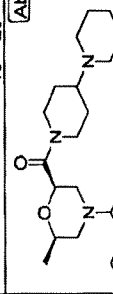
ER-895473	 [Abs] C ₂₂ H ₂₇ N ₅ O ₂	393.49	0.0530	> 10.0	5-((2R,6R)-2-((S)-3-ethylpiperazine-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) 1.06 (3 H), 1.25 (3 H), 1.64 (2 H), 2.67 (1 H), 2.96 (2 H), 3.11 (2 H), 3.36 (2 H), 3.47 (1 H), 4.18 (2 H), 4.40 (1 H), 4.56 (1 H), 4.80 (1 H), 7.26 (1 H), 7.59 (1 H), 8.13 (1 H), 8.35 (1 H), 8.61 (1 H), 8.94 (1 H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H ⁺): 394.22 ; Found: 394.06
ER-895474	 [Abs] C ₂₂ H ₂₇ N ₅ O ₂	422.43	0.1030	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(3,4-difluorobenzyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) d ppm 1.31 (3 H), 2.74 (3 H), 3.36 (1 H), 3.69 (1 H), 4.11 (1 H), 4.36 (2 H), 4.5 (1 H), 7.19 (4 H), 7.62 (1 H), 8.11 (1 H), 8.64 (1 H), 8.95 (1 H).	LCMS (ESI+) calcd for C ₂₃ H ₂₀ F ₂ N ₄ O ₂ (M+H ⁺): 423.16 ; Found: 423.4
ER-895475	 [Abs] C ₂₃ H ₂₀ F ₂ N ₄ O ₂	365.43	0.0440	> 10.0	5-((2R,6R)-2-((S)-3-aminopiperidine-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) d ppm 1.25 (1 H), 1.76 (1 H), 2.00 (1 H), 2.09 (2 H), 2.67 (2 H), 3.03 (2 H), 3.16 (1 H), 3.27 (1 H), 3.35 (2 H), 3.46 (2 H), 3.63 (2 H), 3.96 (1 H), 4.11 (1 H), 4.67 (1 H), 7.23 (1 H), 7.59 (1 H), 8.1 (1 H), 8.61 (1 H), 8.93 (1 H).	LCMS (ESI+) calcd for C ₂₀ H ₂₃ N ₅ O ₂ (M+H ⁺): 366.19 ; Found: 366.39
ER-895476	 [Abs] C ₂₀ H ₂₃ N ₅ O ₂	336.39	0.0370	> 10.0	5-((2R,6R)-2-(azetidine-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) d ppm 1.25 (3 H), 2.31 (2 H), 2.67 (1 H), 2.92 (1 H), 3.35 (1 H), 3.52 (1 H), 4.05 (3 H), 4.51 (3 H), 7.25 (1 H), 7.63 (1 H), 8.13 (1 H), 8.65 (1 H), 8.96 (1 H).	
ER-895477	 [Abs] C ₂₆ H ₃₃ N ₅ O ₂	447.58	0.1110	> 10.0	5-((2R,6R)-2-((1,4'-bipiperidine)-1'-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) 1.25 (3 H), 1.53 (m, 3 H), 1.75 (m, 4 H), 1.98 (2 H), 2.13 (3 H), 2.69 (2 H), 3.06 (4 H), 3.44 (4 H), 4.14 (1 H), 4.38 (1 H), 4.64 (1 H), 7.27 (1 H), 7.61 (1 H), 8.13 (1 H), 8.63 (1 H), 8.95 (1 H).	LCMS (ESI+) calcd for C ₂₆ H ₃₃ N ₅ O ₂ (M+H ⁺): 448.26 ; Found: 448.5

FIG. 6GGG

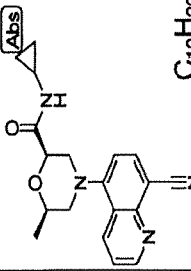
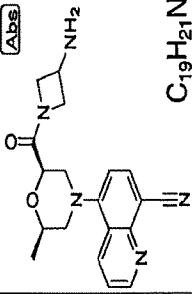
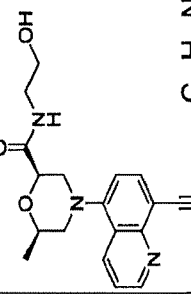
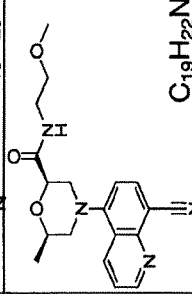
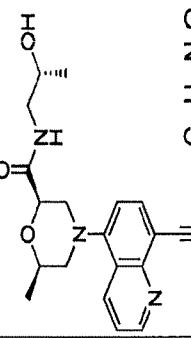
ER-895478	 <chem>C19H20N4O2</chem>	336.39	0.0110	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-cyclopropyl-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) 0.55 (2 H), 0.72 (2 H), 0.86 (1 H), 1.28 (3 H), 2.71 (2 H), 3.34 (1 H), 3.64 (1 H), 4.08 (1 H), 4.41 (1 H), 7.73 (1 H), 7.62 (1 H), 7.83 (1 H), 8.12 (1 H), 8.63 (1 H), 8.95 (1 H).	LCMS (ESI+) calcd for C ₁₉ H ₂₀ N ₄ O ₂ (M+H ⁺): 337.16 ; Found: 336.98
ER-895479	 <chem>C19H21N5O2</chem>	351.41	0.0030	> 10.0	5-(2R,6R)-2-(3-aminoazetidine-1-carbonyl)-6-methylmorpholine-2-carbonitrile	¹ H NMR (400 MHz, METHANOL-d ₄) 1.25 (3 H), 2.67 (1 H), 2.91 (1 H), 3.35 (1 H), 3.53 (1 H), 3.66 (1 H), 3.79 (1 H), 4.08 (2 H), 4.16 (2 H), 4.57 (3 H), 7.24 (1 H), 7.61 (1 H), 8.12 (1 H), 8.62 (1 H), 8.95 (1 H).	LCMS (ESI+) calcd for C ₁₉ H ₂₁ N ₅ O ₂ (M+H ⁺): 352.17 ; Found: 352.34
ER-897383	 <chem>C19H21N5O2</chem>	340.38	0.2965	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-hydroxyethyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CDCl ₃ -d) d ppm 1.30 (3 H, d) 2.66 (1 H, s) 2.76 (1 H, s) 3.22 - 3.35 (1 H, m) 3.40 - 3.58 (3 H, m) 3.69 - 3.85 (4 H, m) 4.01 - 4.13 (1 H, m) 4.35 - 4.50 (1 H, m) 6.96 - 7.16 (1 H, m) 7.41 - 7.60 (1 H, m) 7.92 - 8.05 (1 H, m) 8.34 - 8.50 (1 H, m) 8.95 - 9.11 (1 H, m)	LCMS (ESI+) calcd for C ₁₈ H ₂₀ N ₄ O ₃ [M+H ⁺] 341.2, found 341.2
ER-897385	 <chem>C19H22N4O3</chem>	354.41	0.0483	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-methoxyethyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) d ppm 1.30 (3 H, d) 2.59 - 2.82 (2 H, m) 3.35 - 3.49 (8 H, m) 3.54 - 3.71 (1 H, m) 4.03 - 4.17 (1 H, m) 4.36 - 4.50 (1 H, m) 7.13 - 7.27 (1 H, m) 7.54 - 7.69 (1 H, m) 8.06 - 8.15 (1 H, m) 8.54 - 8.71 (1 H, m) 8.89 - 9.11 (1 H, m)	LCMS (ESI+) calcd for C ₁₉ H ₂₂ N ₄ O ₃ (M+H ⁺) 355.4, found 355.2
ER-897445	 <chem>C19H22N4O3</chem>	354.41	0.0440	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(R)-2-hydroxypropyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) d ppm 1.12 (3 H, d) 1.30 (3 H, d) 2.63 - 2.81 (2 H, m) 3.14 (1 H, dd) 3.24 - 3.31 (1 H, m) 3.36 (1 H, d) 3.68 (1 H, d) 3.74 - 3.88 (1 H, m) 4.00 - 4.18 (1 H, m) 4.47 (1 H, dd) 7.22 (1 H, d) 7.62 (1 H, dd) 8.10 (1 H, d) 8.57 - 8.69 (1 H, m) 8.84 - 9.04 (1 H, m)	LCMS (ESI+) calcd for C ₁₉ H ₂₂ N ₄ O ₃ (M+H ⁺) 355.4, found 355.2

FIG. 6HHH

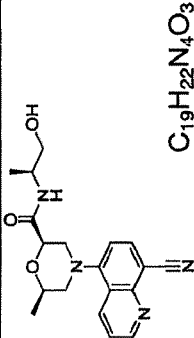
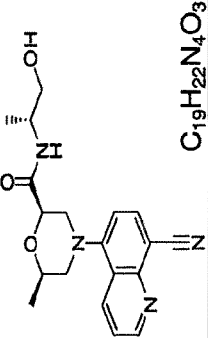
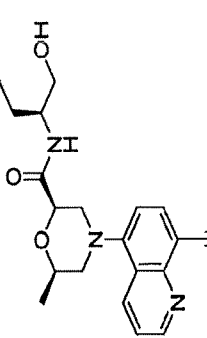
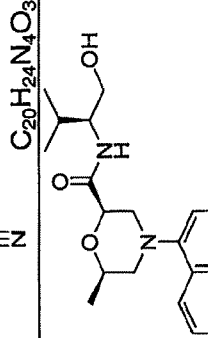
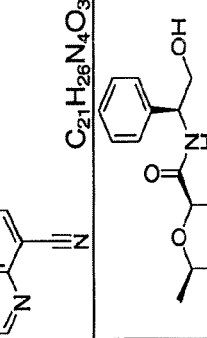
ER-897446	 <chem>C19H22N4O3</chem>	354.41	0.0255	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxypropyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CDCl ₃ -d) δ ppm 1.22 (3 H, d) 1.31 (3 H, d) 1.92 - 2.28 (1 H, brs) 2.61 - 2.71 (1 H, m) 2.72 - 2.84 (1 H, m) 3.22 - 3.31 (1 H, m) 3.50 - 3.61 (1 H, m) 3.64 - 3.72 (1 H, m) 3.73 - 3.84 (1 H, m) 4.03 - 4.17 (2 H, m) 4.35 - 4.46 (1 H, m) 6.69 - 6.85 (1 H, m) 6.98 - 7.13 (1 H, m) 7.45 - 7.57 (1 H, m) 7.94 - 8.07 (1 H, m) 8.37 - 8.50 (1 H, m) 8.93 - 9.16 (1 H, m)	LCMS (ESI ⁺) calcd for C ₁₉ H ₂₂ N ₄ O ₃ (M+H ⁺) 355.4, found 355.2
ER-897447	 <chem>C19H22N4O3</chem>	354.41	0.0920	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((R)-1-hydroxypropyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.12 (3 H, s) 1.30 (3 H, d) 2.62 - 2.82 (3 H, m) 3.34 (1 H, d) 3.61 - 3.72 (1 H, m) 3.92 - 4.17 (3 H, m) 4.44 (1 H, dd) 7.14 - 7.29 (1 H, m) 7.56 - 7.66 (1 H, m) 8.00 - 8.15 (1 H, m) 8.55 - 8.66 (1 H, m) 8.86 - 8.98 (1 H, m)	LCMS (ESI ⁺) calcd for C ₁₉ H ₂₂ N ₄ O ₃ (M+H ⁺) 355.4, found: 355.2
ER-897827	 <chem>C19H22N4O3</chem>	368.43	0.0200	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxybutyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.99 - 1.12 (m, 1 H) 1.17 (t, J=7.47 Hz, 4 H) 1.38 - 1.48 (m, 2 H) 1.52 (d, J=6.15 Hz, 4 H) 1.66 - 1.92 (m, 3 H) 2.80 - 3.04 (m, 3 H) 3.48 (dt, J=11.94, 2.09 Hz, 1 H) 3.81 (dd, J=11.13, 6.15 Hz, 1 H) 3.91 (dd, J=11.13, 3.52 Hz, 1 H) 3.98 (dt, J=12.01, 2.34 Hz, 1 H) 4.02 - 4.13 (m, 1 H) 4.21 - 4.36 (m, 2 H) 4.63 (dd, J=10.84, 2.64 Hz, 1 H) 6.97 (d, J=8.20 Hz, 1 H) 7.25 (s, 1 H) 7.71 (dd, J=8.64, 4.25 Hz, 1 H) 8.21 (d, J=7.91 Hz, 1 H) 8.66 (dd, J=8.50, 1.76 Hz, 1 H) 9.24 (dd, J=4.25, 1.61 Hz, 1 H)	
ER-897828	 <chem>C20H24N4O3</chem>	382.46	0.0190	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxy-3-methylbutyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.79 - 0.87 (m, 1 H) 0.95 (dd, J=10.40, 6.89 Hz, 7 H) 1.16 - 1.27 (m, 2 H) 1.30 (d, J=6.15 Hz, 4 H) 1.85 - 2.03 (m, 2 H) 2.65 (dd, J=12.01, 10.25 Hz, 1 H) 2.75 (dd, J=12.01, 10.84 Hz, 2 H) 3.25 (dt, J=12.01, 2.05 Hz, 1 H) 3.55 - 3.80 (m, 5 H) 3.98 - 4.15 (m, 1 H) 4.43 (dd, J=10.55, 2.64 Hz, 1 H) 6.82 (d, J=8.50 Hz, 1 H) 7.03 (d, J=7.91 Hz, 1 H) 7.49 (dd, J=8.64, 4.25 Hz, 1 H) 7.97 (d, J=7.91 Hz, 1 H) 8.43 (dd, J=8.50, 1.76 Hz, 1 H) 9.01 (dd, J=4.39, 1.76 Hz, 1 H)	
ER-897829	 <chem>C24H24N4O3</chem>	416.48	0.0550	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-2-hydroxy-1-phenylethyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d) δ ppm 0.76 - 0.89 (m, 1 H) 1.14 - 1.41 (m, 6 H) 2.68 (dd, J=11.87, 10.40 Hz, 1 H) 2.79 - 2.86 (m, 1 H) 3.23 - 3.31 (m, 1 H) 3.76 - 3.82 (m, 1 H) 3.89 (d, J=4.98 Hz, 2 H) 4.03 - 4.13 (m, 1 H) 4.43 (dd, J=10.84, 2.64 Hz, 1 H) 5.07 (dt, J=7.47, 5.05 Hz, 1 H) 7.05 (d, J=7.91 Hz, 1 H) 7.21 - 7.39 (m, 7 H) 7.48 (dd, J=8.64, 4.25 Hz, 1 H) 7.99 (d, J=8.20 Hz, 1 H) 8.43 (dd, J=8.64, 1.61 Hz, 1 H) 9.01 (dd, J=4.25, 1.61 Hz, 1 H)	

FIG. 6III

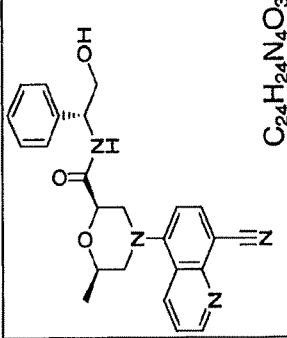
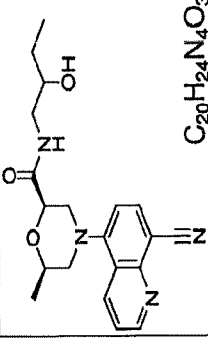
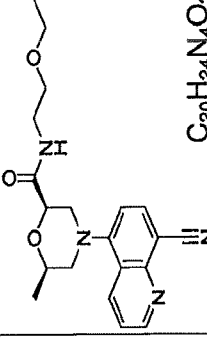
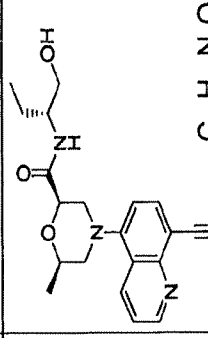
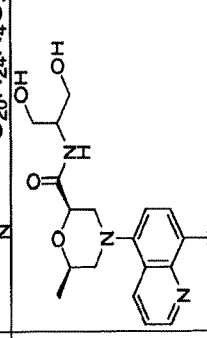
ER-897830	 C ₂₄ H ₂₄ N ₄ O ₃	416.48	0.1050	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((R)-2-hydroxy-1-phenylethyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM- <i>d</i>) δ ppm 0.79 - 0.88 (m, 1 H) 1.15 - 1.37 (m, 6 H) 2.63 - 2.77 (m, 2 H) 3.28 (dt, <i>J</i> =12.01, 2.05 Hz, 1 H) 3.76 (dt, <i>J</i> =12.01, 2.20 Hz, 1 H) 3.92 (d, <i>J</i> =4.98 Hz, 3 H) 4.06 - 4.15 (m, 1 H) 4.49 (dd, <i>J</i> =10.55, 2.64 Hz, 1 H) 5.09 (dt, <i>J</i> =7.62, 4.98 Hz, 1 H) 7.04 (d, <i>J</i> =8.20 Hz, 1 H) 7.23 - 7.40 (m, 7 H) 7.50 (dd, <i>J</i> =8.50, 4.39 Hz, 1 H) 7.99 (d, <i>J</i> =7.91 Hz, 1 H) 8.45 (dd, <i>J</i> =8.50, 1.76 Hz, 1 H) 9.03 (dd, <i>J</i> =4.25, 1.61 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₀ H ₂₄ N ₄ O ₃ (M+H+): 369.19, found: 369.18
ER-897922	 C ₂₄ H ₂₄ N ₄ O ₃	368.43	0.0280	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-hydroxybutyl)-6-methylmorpholine-2-carboxamide		LCMS (ESI+) calcd for C ₂₀ H ₂₄ N ₄ O ₃ (M+H+): 369.19, found: 369.18
ER-897923	 C ₂₀ H ₂₄ N ₄ O ₃	368.43	0.0520	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-ethoxybutyl)-6-methylmorpholine-2-carboxamide		LCMS (ESI+) calcd for C ₂₀ H ₂₄ N ₄ O ₃ (M+H+): 369.19, found: 369.18
ER-897924	 C ₂₀ H ₂₄ N ₄ O ₃	368.43	0.0880	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((R)-1-hydroxybutan-2-yl)-6-methylmorpholine-2-carboxamide		LCMS (ESI+) calcd for C ₂₀ H ₂₄ N ₄ O ₃ (M+H+): 369.19, found: 369.18
ER-897925	 C ₁₉ H ₂₂ N ₄ O ₄	370.41	0.1780	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1,3-dihydroxypropan-2-yl)-6-methylmorpholine-2-carboxamide		LCMS (ESI+) calcd for C ₁₉ H ₂₂ N ₄ O ₄ (M+H+): 371.17, found: 371.16

FIG. 6JJJ

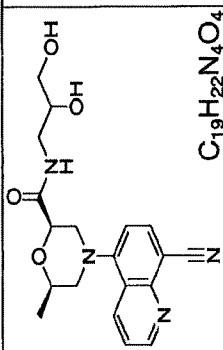
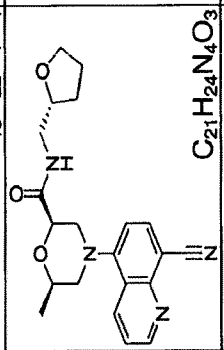
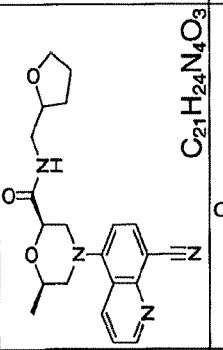
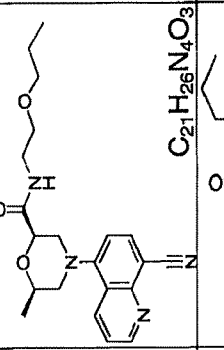
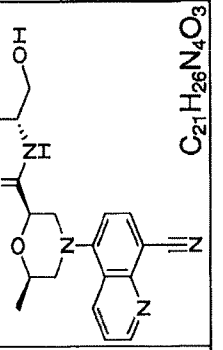
ER-897926	 $C_{19}H_{22}N_4O_4$	370.41	0.1710	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2,3-dihydroxypropyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{19}H_{22}N_4O_4$ (M+H+): 371.17; found: 371.16
ER-897927	 $C_{19}H_{22}N_4O_4$	380.45	0.0500	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-tetrahydrofuran-2-yl)methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{21}H_{24}N_4O_3$ (M+H+): 381.19; found: 381.18
ER-897928	 $C_{21}H_{24}N_4O_3$	380.45	0.0440	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((tetrahydrofuran-2-yl)methyl)morpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{21}H_{24}N_4O_3$ (M+H+): 381.19; found: 381.18
ER-897929	 $C_{21}H_{24}N_4O_3$	382.46	0.0800	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(2-propoxyethyl)morpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{21}H_{26}N_4O_3$ (M+H+): 383.20; found: 383.2
ER-897930	 $C_{21}H_{26}N_4O_3$	382.24	0.0810	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((R)-1-hydroxypentyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{21}H_{26}N_4O_3$ (M+H+): 383.20; found: 383.2

FIG. 6KKK

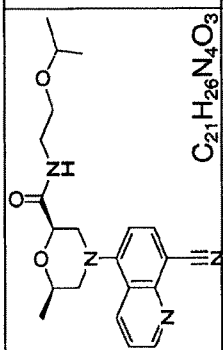
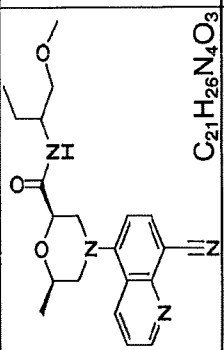
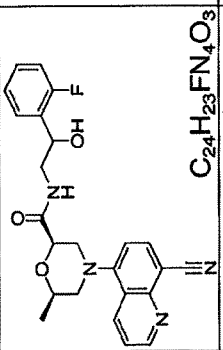
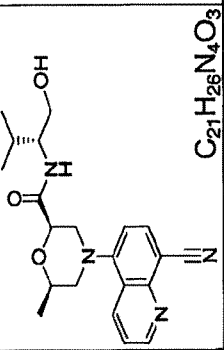
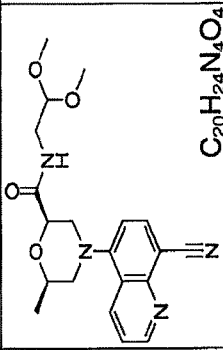
ER-897931	 C ₂₁ H ₂₆ N ₄ O ₃	382.46	0.0750	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-isopropoxyethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₁ H ₂₆ N ₄ O ₃ (M+H ⁺): 383.20; found: 383.2
ER-897932	 C ₂₁ H ₂₆ N ₄ O ₃	382.46	0.0220	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1-methoxybutan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₁ H ₂₆ N ₄ O ₃ (M+H ⁺): 383.20; found: 383.2
ER-897933	 C ₂₄ H ₂₃ FN ₄ O ₃	434.47	0.0560	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-(2-fluorophenyl)-6-hydroxyethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₄ H ₂₃ FN ₄ O ₃ (M+H ⁺): 435.18; found: 435.18
ER-897934	 C ₂₁ H ₂₆ N ₄ O ₃	382.46	0.1180	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1-hydroxy-3-methylbutan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₁ H ₂₆ N ₄ O ₃ (M+H ⁺): 383.20; found: 383.2
ER-897935	 C ₂₀ H ₂₄ N ₄ O ₄	384.43	0.0240	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-dimethoxyethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₀ H ₂₄ N ₄ O ₄ (M+H ⁺): 385.18; found: 385.18

FIG. 6LLL

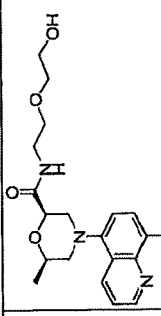
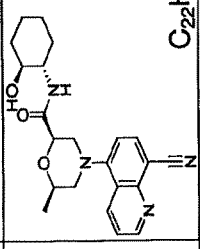
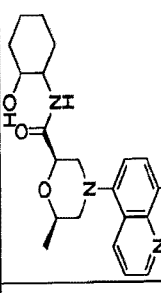
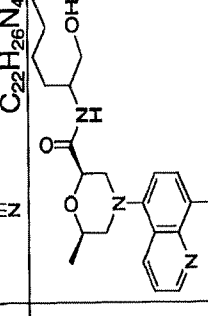
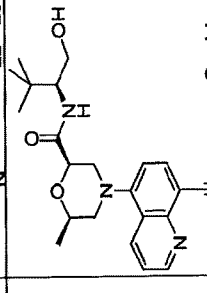
ER-897936	 $C_{20}H_{24}N_4O_4$	384.43	0.0510	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-(2-hydroxyethoxy)ethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{20}H_{24}N_4O_4$ (M+H+): 385.18; found: 385.18
ER-897937	 $C_{20}H_{24}N_4O_4$	394.47	0.0520	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1S,2S)-2-hydroxycyclohexyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{22}H_{26}N_4O_3$ (M+H+): 395.20; found: 395.18
ER-897938	 $C_{22}H_{26}N_4O_3$	394.47	0.0190	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-hydroxycyclohexyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{22}H_{26}N_4O_3$ (M+H+): 395.20; found: 395.2
ER-897939	 $C_{22}H_{26}N_4O_3$	396.49	0.0630	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1-hydroxyhexan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{22}H_{28}N_4O_3$ (M+H+): 397.22; found: 397.22
ER-897940	 $C_{22}H_{28}N_4O_3$	396.49	0.0270	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxy-3,3-dimethylbutan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{22}H_{28}N_4O_3$ (M+H+): 397.22; found: 397.22

FIG. 6MM

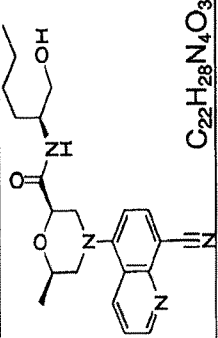
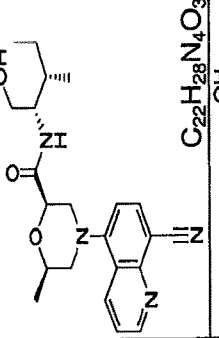
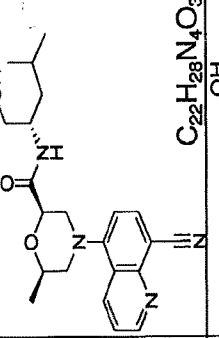
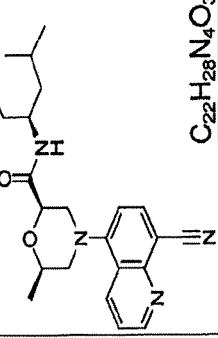
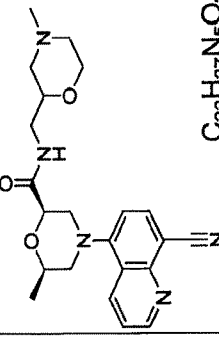
ER-897941		396.49	0.0390	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxyhexan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C22H28N4O3 (M+H+): 397.22; found: 397.22
ER-897942		396.49	0.0190	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((2S,3S)-1-hydroxy-3-methylpentan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C22H28N4O3 (M+H+): 397.22; found: 397.22
ER-897943		396.49	0.0710	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxy-4-methylpentan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C22H28N4O3 (M+H+): 397.22; found: 397.22
ER-897944		396.49	0.1390	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((R)-1-hydroxy-4-methylpentan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C22H28N4O3 (M+H+): 397.22; found: 397.22
ER-897945		409.49	0.0070	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((4-methylmorpholin-2-yl)methyl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C22H27N5O3 (M+H+): 410.21; found: 410.21

FIG. 6NNN

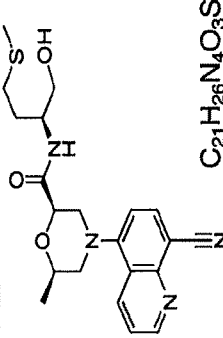
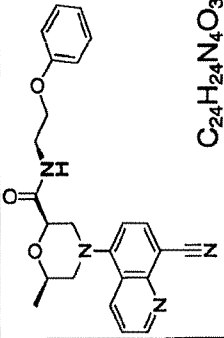
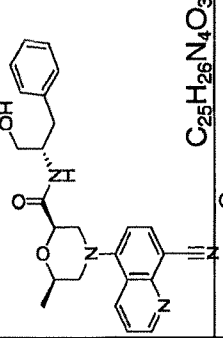
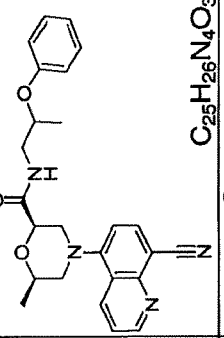
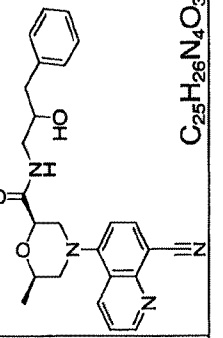
ER-897946	 <chem>C21H26N4O3S</chem>	414.53	0.0540	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxy-4-(methylthio)butan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₁ H ₂₆ N ₄ O ₃ S (M+H ⁺): 415.18; found: 415.17
ER-897947	 <chem>C21H26N4O3S</chem>	416.48	0.3950	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((2-phenoxyethyl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₁ H ₂₆ N ₄ O ₃ S (M+H ⁺): 415.18; found: 417.18
ER-897948	 <chem>C24H24N4O3</chem>	430.51	0.0600	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-1-hydroxy-3-phenylpropan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₅ H ₂₆ N ₄ O ₃ (M+H ⁺): 431.2; found: 431.20
ER-897949	 <chem>C25H26N4O3</chem>	430.51	0.4890	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-phenoxypropyl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₅ H ₂₆ N ₄ O ₃ (M+H ⁺): 431.2; found: 431.20
ER-897950	 <chem>C25H26N4O3</chem>	430.51	0.0700	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-hydroxy-3-phenylpropyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₅ H ₂₆ N ₄ O ₃ (M+H ⁺): 431.2; found: 431.20

FIG. 6000

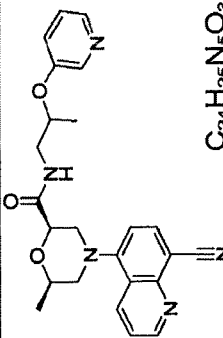
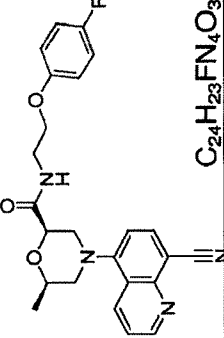
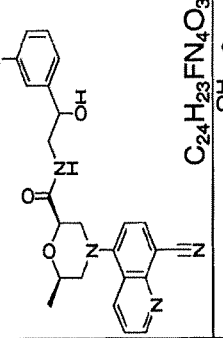
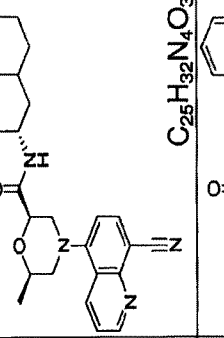
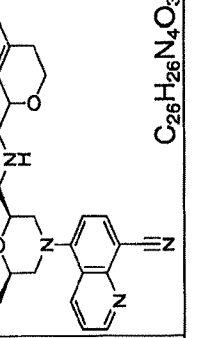
ER-897952	 C ₂₄ H ₂₅ N ₅ O ₃	431.49	0.0380	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(2-(pyridin-3-yloxy)propyl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₄ H ₂₅ N ₅ O ₃ (M+H ⁺): 432.2; found: 432.2
ER-897955	 C ₂₄ H ₂₃ FN ₄ O ₃	434.47	0.3550	9.200	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-(4-fluorophenoxy)ethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₄ H ₂₃ FN ₄ O ₃ (M+H ⁺): 435.18; found: 435.18
ER-897956	 C ₂₄ H ₂₃ FN ₄ O ₃	434.47	0.0620	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-(3-fluorophenyl)-6-hydroxyethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₄ H ₂₃ FN ₄ O ₃ (M+H ⁺): 435.18; found: 435.18
ER-897957	 C ₂₅ H ₃₂ N ₄ O ₃	436.55	0.0800	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1-(S)-1-cyclohexyl-3-hydroxypropan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₅ H ₃₂ N ₄ O ₃ (M+H ⁺): 437.25; found: 437.25
ER-897958	 C ₂₆ H ₂₆ N ₄ O ₃	442.52	0.1330	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(isochroman-1-ylmethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C ₂₆ H ₂₆ N ₄ O ₃ (M+H ⁺): 443.20; found: 443.20

FIG. 6PPP

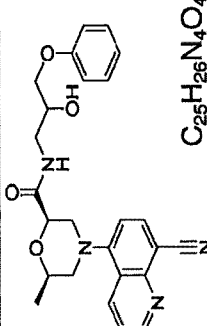
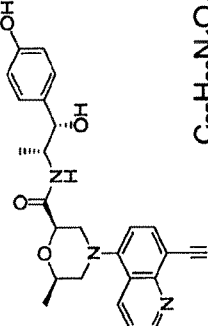
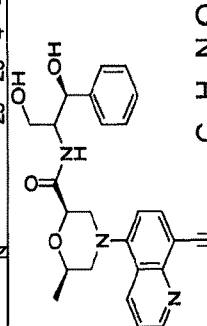
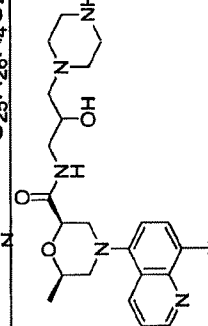
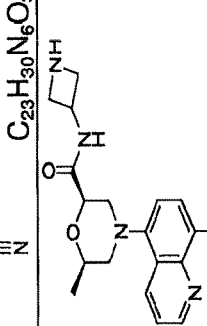
ER-897960		446.50	0.1490	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-hydroxy-3-phenoxypropyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C25H26N4O4 (M+H+): 447.20; found: 447.2
ER-897961		446.50	0.0280	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((1S,2R)-1-hydroxy-1-(4-hydroxyphenyl)propan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C25H26N4O4 (M+H+): 447.20; found: 447.2
ER-897962		446.50	0.0230	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((1S)-1,3-dihydroxy-1-phenylpropan-2-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C25H26N4O4 (M+H+): 447.20; found: 447.2
ER-897963		438.53	0.0330	5.024	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-hydroxy-3-(piperazin-1-yl)propyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C23H30N6O3 (M+H+): 439.24; found: 439.24
ER-897964		351.41	0.0280	4.526	(2R,6R)-N-(azetidin-3-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for C19H21N5O2 (M+H+): 352.17; found: 352.17

FIG. 6QQQ

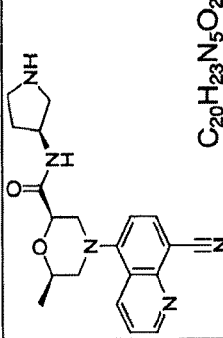
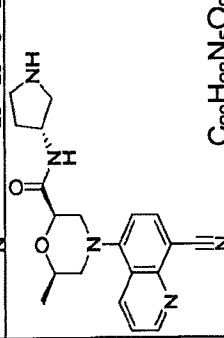
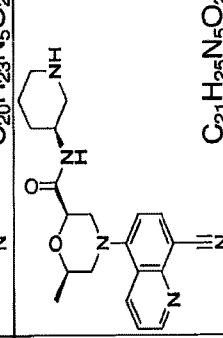
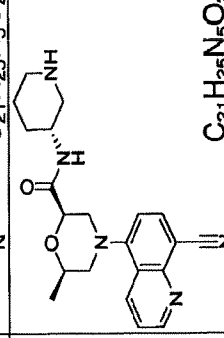
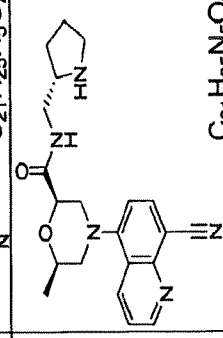
ER-897965		365.43	0.0100	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((S)-pyrrolidin-3-yl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C20H23N5O2 (M+H+): 366.19; found: 366.19
ER-897966		365.43	0.0370	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-pyrrolidin-3-yl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C20H23N5O2 (M+H+): 366.19; found: 366.19
ER-897967		379.46	0.0100	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((S)-piperidin-3-yl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C21H25N5O2 (M+H+): 380.20; found: 380.2
ER-897968		379.46	0.0095	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-piperidin-3-yl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C21H25N5O2 (M+H+): 380.20; found: 380.2
ER-897969		379.46	0.0150	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((S)-pyrrolidin-2-yl)morpholine-2-carboxamide	LCMS (ESI+) calcd for C21H25N5O2 (M+H+): 380.20; found: 380.19

FIG. 6RRR

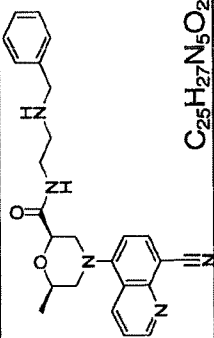
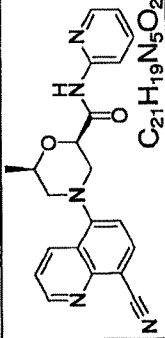
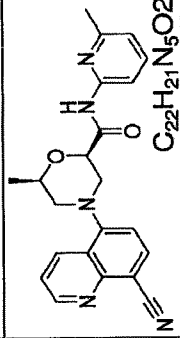
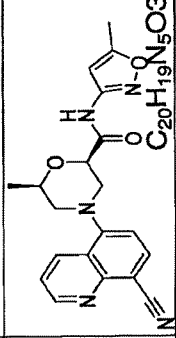
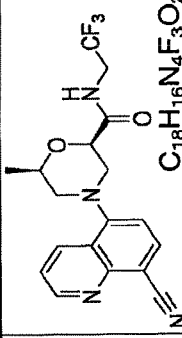
ER-897970		429.52	0.0380	> 10.0	(2R,6R)-N-(2-(benzylamino)ethyl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) 1.38 (3 H), 2.76 (1 H), 2.91 (1 H), 3.41 (1 H), 3.77 (1 H), 4.24 (1 H), 4.66 (1 H), 7.15 (1 H), 7.28 (1 H), 7.65 (1 H), 7.8 (1 H), 8.14 (2 H), 8.28 (1 H), 8.68 (1 H), 8.97 (1 H).	LCMS (ESI+) calcd for C ₂₅ H ₂₇ N ₅ O ₂ (M+H ⁺): 430.22; found: 430.22
ER-898560		373.41	0.0380	> 10.0	(2R,6R)-N-(2-(6-methyl-N-(pyridin-2-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) 1.38 (3 H), 2.76 (1 H), 2.91 (1 H), 3.41 (1 H), 3.77 (1 H), 4.24 (1 H), 4.66 (1 H), 7.15 (1 H), 7.28 (1 H), 7.65 (1 H), 7.8 (1 H), 8.14 (2 H), 8.28 (1 H), 8.68 (1 H), 8.97 (1 H).	LCMS (ESI+) calcd for C ₂₁ H ₁₉ N ₅ O ₂ (M+H ⁺): 374.16; found: 374.16
ER-898561		387.44	0.0530	> 10.0	(2R,6R)-N-(2-(6-methyl-N-(6-methylpyridin-2-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) 1.39 (3 H), 2.44 (1 H), 2.76 (1 H), 2.90 (1 H), 3.41 (1 H), 3.76 (1 H), 4.23 (1 H), 4.65 (1 H), 7.02 (1 H), 7.28 (1 H), 7.66 (1 H), 7.96 (2 H), 8.13 (1 H), 8.68 (1 H), 8.97 (1 H).	
ER-898562		377.40	0.1570	> 10.0	(2R,6R)-N-(2-(6-methyl-N-(5-methylisoxazol-3-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.35 (3 H), 2.40 (3 H), 2.71 (1 H), 2.86 (1 H), 3.32 (1 H), 3.80 (1 H), 4.16 (1 H), 4.56 (1 H), 6.68 (1 H), 7.10 (1 H), 7.54 (1 H), 8.04 (1 H), 8.47 (1 H), 8.99 (1 H), 9.09 (1 H).	LCMS (ESI+) calcd for C ₂₀ H ₁₉ N ₅ O ₃ (M+H ⁺): 378.15; found: 378.1
ER-898563		378.35	0.0180	> 10.0	(2R,6R)-N-(2-(6-methyl-N-(2,2,2-trifluoroethyl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.37 (3 H), 2.76 (2 H), 3.33 (1 H), 3.82 (1 H), 3.99 (2 H), 4.15 (1 H), 4.53 (1 H), 7.00 (1 H), 7.12 (1 H), 7.56 (1 H), 8.07 (1 H), 8.49 (1 H), 9.11 (1 H).	LCMS (ESI+) calcd for C ₁₈ H ₁₇ F ₃ N ₄ O ₂ (M+H ⁺): 378.15; found: 380.3

FIG. 6SSS

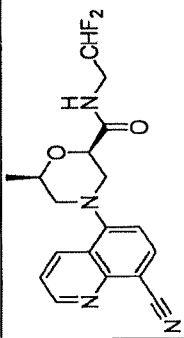
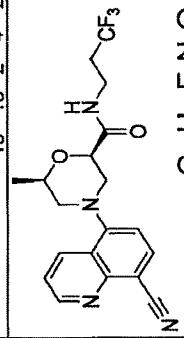
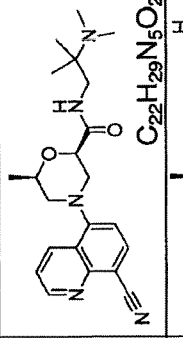
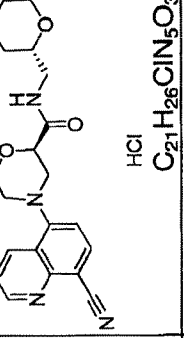
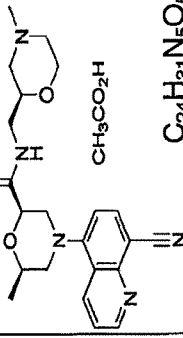
ER-898564	 <chem>Cc1cc2nc(C#N)ccc2n1C(=O)NCC(F)(F)C</chem> $C_{18}H_{18}F_2N_4O_2$	360.36	0.3330	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2,2-difluoroethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{18}H_{18}F_2N_4O_2$ (M+H+): 361.14; found: 361.1
ER-898565	 <chem>Cc1cc2nc(C#N)ccc2n1C(=O)NCC(F)(F)F</chem> $C_{19}H_{19}F_3N_4O_2$	392.38	0.0340	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2,2,2-trifluoroethyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{19}H_{19}F_3N_4O_2$ (M+H+): 393.15; found: 393.25
ER-898566	 <chem>Cc1cc2nc(C#N)ccc2n1C(=O)NCC(C)(C)N(C)C</chem> $C_{19}H_{19}F_3N_4O_2$	395.50	0.0030	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-(dimethylamino)-2-methylpropyl)-6-methylmorpholine-2-carboxamide	LCMS (ESI+) calcd for $C_{22}H_{29}N_5O_2$ (M+H+): 396.24; found: 397.56
ER-898694	 <chem>Cc1cc2nc(C#N)ccc2n1C(=O)NCC1CN(C)CCO1</chem> HCl $C_{21}H_{26}ClN_5O_3$	431.92	0.0020	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-4-methylmorpholin-2-yl)morpholine-2-carboxamide hydrochloride	(ESI+) calcd. For: $C_{21}H_{25}N_5O_3$ 395.5 found 396.4 (m+1)
ER-898707	 <chem>Cc1cc2nc(C#N)ccc2n1C(=O)NCC1CN(C)CCO1CC(=O)OC(=O)C</chem> $C_{24}H_{31}N_5O_5$	469.54	0.0050	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((S)-4-methylmorpholin-2-yl)morpholine-2-carboxamide acetic acetate	(ESI+) calcd. For: $C_{22}H_{27}N_5O_3$ 409.2 found 410.2 (m+1)

FIG. 6TTT

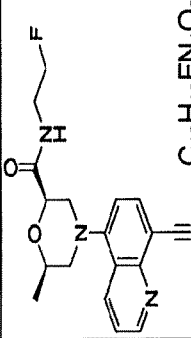
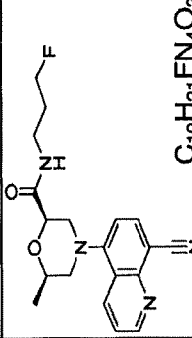
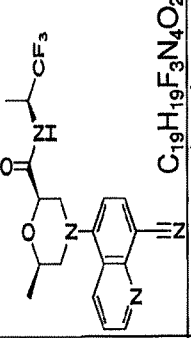
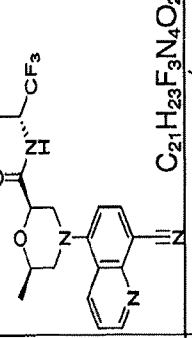
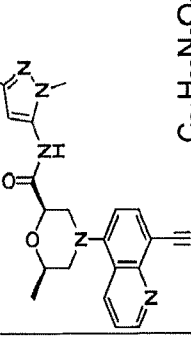
ER-898914	 <chem>C18H19FN4O2</chem>	342.37	0.0310	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(2-fluoroethyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d1) □□ppm 1.33 (3 H), 2.75 (2 H), 3.32 (1 H), 3.65 (2 H), 3.82 (1 H), 4.12 (1 H), 4.48 (2 H), 4.61 (1 H), 7.03 (1 H), 7.10 (1 H), 7.55 (1 H), 8.06 (1 H), 8.49 (1 H), 9.10 (1 H).	LCMS (ESI+) calcd for C18H19FN4O2 (M+H+): 343.15; found: 343.06
ER-898915	 <chem>C18H19FN4O2</chem>	356.40	0.0374	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(3-fluoropropyl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d1) □□ppm 1.33 (3 H), 1.97 (2 H), 2.71 (2 H), 3.30 (1 H), 3.47 (2 H), 3.81 (1 H), 4.10 (1 H), 4.42 (1 H), 4.49 (1 H), 4.61 (1 H), 6.88 (1 H), 7.08 (1 H), 7.53 (1 H), 8.03 (1 H), 8.47 (1 H), 9.07 (1 H).	LCMS (ESI+) calcd for C19H21FN4O2 (M+H+): 357.17; found: 357.26
ER-898916	 <chem>C19H19F3N4O2</chem>	420.43	0.0584	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((S)-1,1,1-trifluoropropan-2-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d1) □□ppm 1.37 (6 H), 2.73 (2 H), 3.31 (1 H), 3.31 (1 H), 4.12 (1 H), 4.72 (1 H), 6.74 (1 H), 7.10 (1 H), 7.55 (1 H), 8.05 (1 H), 8.47 (1 H), 9.09 (1 H).	LCMS (ESI+) calcd for C19H19F3N4O2 (M+H+): 393.15; found: 393.15
ER-898917	 <chem>C19H19F3N4O2</chem>	420.43	0.4860	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-1,1,1-trifluoropropan-2-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d1) □□ppm 1.01 (6 H), 1.35 (3 H), 2.21 (1 H), 2.73 (2 H), 3.32 (1 H), 3.85 (1 H), 4.14 (1 H), 4.51 (2 H), 6.83 (1 H), 7.11 (1 H), 7.54 (1 H), 8.05 (1 H), 8.48 (1 H), 9.09 (1 H).	LCMS (ESI+) calcd for C21H23F3N4O2 (M+H+): 421.18; found: 421.18
ER-898918	 <chem>C21H22N6O2</chem>	390.45	0.0321	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1,3-dimethyl-1H-pyrazol-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d1) □□ppm 1.41 (3 H), 2.24 (3 H), 2.76 (1 H), 2.89 (1 H), 3.35 (1 H), 3.70 (3 H), 3.86 (1 H), 4.20 (1 H), 4.62 (1 H), 6.11 (1 H), 7.13 (1 H), 7.56 (1 H), 8.06 (1 H), 8.24 (1 H), 8.49 (1 H), 9.10 (1 H).	LCMS (ESI+) calcd for C21H22N6O2 (M+H+): 391.18; found: 391.27

FIG. 6UUU

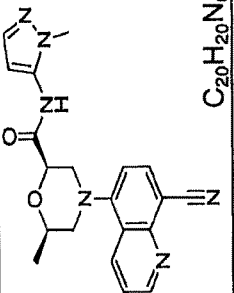
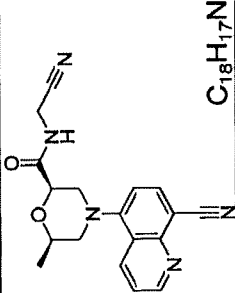
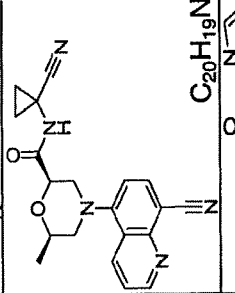
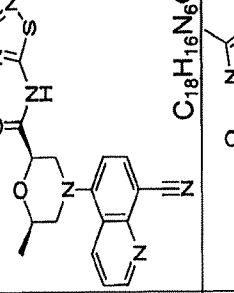
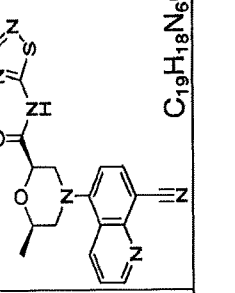
ER-898919		376.42	0.0137	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(1-methyl-1H-pyrazol-5-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.41 (3 H), 2.77 (1 H), 2.91 (1 H), 3.37 (1 H), 3.79 (3 H), 3.88 (1 H), 4.22 (1 H), 4.64 (1 H), 6.32 (1 H), 7.14 (1 H), 7.46 (1 H), 7.57 (1 H), 8.07 (1 H), 8.30 (1 H), 8.50 (1 H), 9.11 (1 H).	LCMS (ESI+) calcd for C ₂₀ H ₂₀ N ₆ O ₂ (M+H+): 377.17; found: 377.28
ER-898920		335.37	0.0450	> 10.0	(2R,6R)-N-(1-cyanomethyl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.35 (3 H), 2.70 (1 H), 2.81 (1 H), 3.32 (1 H), 3.79 (1 H), 4.14 (1 H), 4.27 (2 H), 4.52 (1 H), 7.11 (2 H), 7.56 (1 H), 8.06 (1 H), 8.47 (1 H), 9.10 (1 H).	LCMS (ESI+) calcd for C ₁₈ H ₁₇ N ₅ O ₂ (M+H+): 336.14; found: 336.14
ER-898921		361.40	0.0870	> 10.0	(2R,6R)-N-(1-cyanocyclopropyl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.34 (5 H), 1.62 (2 H), 2.68 (1 H), 2.80 (1 H), 3.31 (1 H), 3.79 (1 H), 4.11 (1 H), 4.46 (1 H), 7.11 (1 H), 7.16 (1 H), 7.11 (1 H), 8.06 (1 H), 8.46 (1 H), 9.10 (1 H).	LCMS (ESI+) calcd for C ₂₀ H ₁₉ N ₅ O ₂ (M+H+): 362.16; found: 362.15
ER-898922		380.43	0.0650	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(1,2,4-thiadiazol-5-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.42 (3 H), 2.76 (1 H), 2.95 (1 H), 3.39 (1 H), 3.87 (1 H), 4.25 (1 H), 4.78 (1 H), 7.14 (1 H), 7.59 (1 H), 8.08 (1 H), 8.39 (1 H), 8.50 (1 H), 9.22 (1 H), 10.17 (1 H).	LCMS (ESI+) calcd for C ₁₈ H ₁₆ N ₆ O ₂ S (M+H+): 381.11; found: 381.11
ER-898923		394.46	0.0650	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(3-methyl-1,2,4-thiadiazol-5-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.39 (3 H), 2.60 (3 H), 2.75 (1 H), 2.93 (1 H), 3.37 (1 H), 3.86 (1 H), 4.24 (1 H), 4.75 (1 H), 7.13 (1 H), 7.58 (1 H), 8.08 (1 H), 8.49 (1 H), 9.12 (1 H), 10.08 (1 H).	LCMS (ESI+) calcd for C ₁₉ H ₁₈ N ₆ O ₂ S (M+H+): 395.12; found: 395.12

FIG. 6VVV

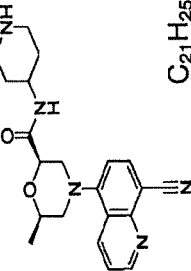
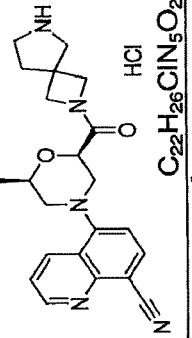
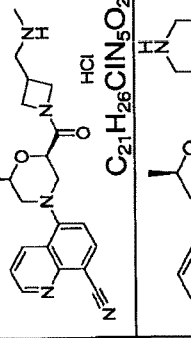
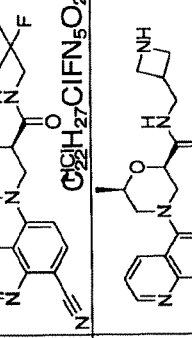
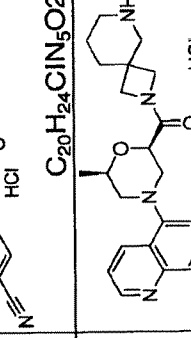
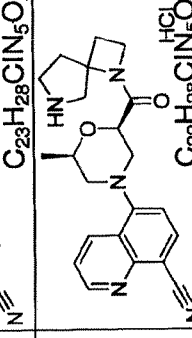
ER-898946		$C_{21}H_{25}N_5O_2$	379.46	0.0030	2.110	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(piperidin-4-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.30-1.35 (d, 3H), 1.45-1.58 (m, 2H), 1.79-1.90 (m, 2H), 2.63-2.83 (m, 4H), 3.03-3.11 (m, 2H), 3.35-3.41 (dt, 1H), 3.65-3.71 (dt, 1H), 3.79-3.89 (m, 1H), 4.09-4.19 (m, 1H), 4.43-4.48 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.67 (dd, 1H), 8.12-8.16 (d, 1H), 8.64-8.68 (dd, 1H), 8.96-8.99 (dd, 1H).	LCMS (ESI+) calcd for C ₂₁ H ₂₅ N ₅ O ₂ (M+H ⁺): 380.20; found: 380.2
ER-899017		$C_{21}H_{25}N_5O_2$	427.93	0.0160	1.070	5-((2R,6R)-2-methyl-6-(2,6-diazaspiro[3.5]nonane-2-carbonyl)morpholino)quinoline-8-carbonitrile hydrochloride	δ 1.15 (d, 3H), 1.22 (t, 2H), 2.10 (m, 2H), 2.61 (m, 1H), 2.84 (m, 1H), 3.08 (m, 1H), 3.12 (m, 1H), 3.40 (m, 1H), 3.79 (dd, 1H), 3.89 (dd, 1H), 3.96 (m, 1H), 4.25 (dd, 1H), 4.33 (dd, 1H), 4.49 (t, 1H), 7.21 (d, 1H), 7.65 (dd, 1H), 8.21 (d, 1H), 8.53 (d, 1H), 8.98 (br s, 2H), 9.01 (d, 1H)	LCMS (ESI+) calcd for C ₂₂ H ₂₅ N ₅ O ₂ (M+H ⁺): 392.40; found: 392.33
ER-899018		$C_{22}H_{26}ClN_5O_2$	415.92	0.0220	>10.0	5-((2R,6R)-2-methyl-6-(3-(methylamino)methyl)azetidine-1-carbonyl)morpholino)quinoline-8-carbonitrile hydrochloride	δ 1.14 (d, 3H), 2.49 (m, 2H), 2.63 (s, 3H), 2.86 (m, 2H), 3.12 (m, 2H), 3.32 (m, 1H), 3.40 (m, 1H), 3.68 (m, 1H), 3.94 (m, 2H), 4.15 (m, 1H), 4.38 (m, 1H), 4.47 (m, 1H), 7.21 (d, 1H), 7.65 (dd, 1H), 8.21 (d, 1H), 8.53 (d, 1H), 8.62 (br s, 2H), 9.01 (d, 1H)	
ER-899019		$C_{21}H_{26}ClN_5O_2$	447.94	0.0300	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((4-fluoropiperidin-4-yl)methyl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.17 (d, 3H), 1.62 (m, 2H), 1.74 (m, 2H), 2.60 (m, 1H), 2.89 (m, 3H), 3.18 (m, 1H), 3.32 (m, 3H), 3.42 (d, 1H), 3.75 (t, 1H), 3.97 (m, 2H), 4.17 (dd, 1H), 4.49 (t, 1H), 7.21 (d, 1H), 7.65 (dd, 1H), 8.21 (d, 1H), 8.53 (d, 1H), 8.70 (br s, 2H), 9.01 (d, 1H)	
ER-899020		$C_{22}H_{27}ClFN_5O_2$	401.90	0.0290	>10.0	(2R,6R)-N-(azetidin-3-ylmethyl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.21 (d, 3H), 2.63 (t, 1H), 2.76 (t, 1H), 2.87 (m, 1H), 2.99 (m, 1H), 3.28 (m, 2H), 3.33 (d, 1H), 3.54 (m, 1H), 3.68 (m, 2H), 3.85 (m, 1H), 4.01 (m, 1H), 4.38 (m, 2H), 7.23 (d, 1H), 7.65 (dd, 1H), 8.21 (m, 2H), 8.55 (d, 1H), 9.01 (d, 1H)	
ER-899021		$C_{20}H_{24}ClN_5O_2$	441.96	0.0230	11.800	5-((2R,6R)-2-methyl-6-(2,6-diazaspiro[3.5]nonane-2-carbonyl)morpholino)quinoline-8-carbonitrile hydrochloride	δ 1.16 (d, 3H), 1.35 (d, 1H), 1.62 (m, 2H), 1.75 (m, 2H), 2.60 (m, 1H), 2.88 (m, 2H), 3.18 (m, 2H), 3.33 (m, 2H), 3.42 (d, 1H), 3.75 (t, 1H), 3.97 (m, 2H), 4.16 (dd, 1H), 4.49 (t, 1H), 7.21 (d, 1H), 7.65 (dd, 1H), 8.21 (d, 1H), 8.53 (d, 1H), 8.70 (br s, 2H), 9.01 (d, 1H)	
ER-899023		$C_{22}H_{28}ClN_5O_2$	427.93	0.0360	11.250	5-((2R,6R)-2-methyl-6-(1,6-diazaspiro[3.4]octane-1-carbonyl)morpholino)quinoline-8-carbonitrile hydrochloride	δ 1.15 (d, 3H), 2.08 (m, 1H), 2.30 (m, 1H), 2.44 (m, 1H), 2.61 (t, 1H), 2.87 (m, 1H), 3.19 (m, 2H), 3.33 (m, 2H), 3.41 (m, 2H), 3.81 (m, 1H), 3.96 (m, 1H), 4.18 (m, 2H), 4.46 (dd, 1H), 7.21 (d, 1H), 7.65 (dd, 1H), 8.21 (d, 1H), 8.53 (d, 1H), 8.70 (br s, 2H), 9.01 (d, 1H)	

FIG. 6WWW

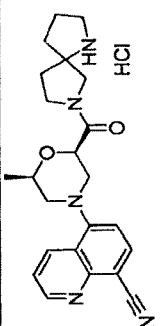
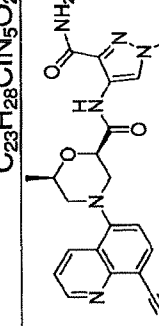
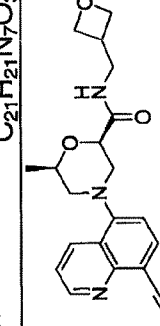
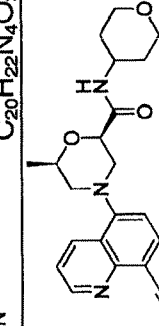
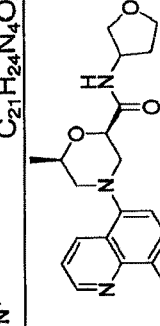
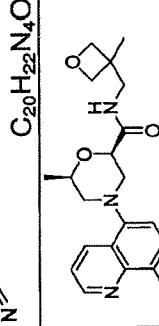
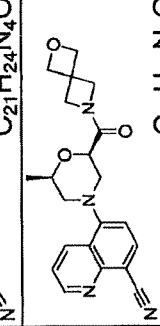
ER-899024		441.96	0.2050	2.190	5-((2R,6R)-2-methyl-6-(1,7-diazaspiro[4.4]nonane-7-carbonyl)morpholino)quinoline-8-carbonitrile hydrochloride	δ 1.15, (d, 3H), 1.87, (m, 4H), 2.63, (m, 1H), 2.95, (m, 1H), 3.09, (m, 2H), 3.23, (m, 2H), 3.35, (m, 4H), 3.60, (m, 1H), 4.00, (m, 2H), 4.58, (t, 1H), 7.23, (d, 1H), 7.63, (dd, 1H), 8.21, (d, 1H), 8.55, (d, 1H), 9.01, (d, 1H)	
ER-899025		419.44	0.0510	>10.0	(2R,6R)-N-(3-carbamoyl-1-methyl-1H-pyrazol-4-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	δ 1.23, (d, 3H), 2.67, (m, 1H), 2.83, (t, 1H), 3.38, (d, 1H), 3.62, (d, 1H), 3.84, (s, 3H), 4.12, (m, 1H), 4.61, (d, 1H), 7.25, (d, 1H), 7.42, (s, 1H), 7.66, (m, 2H), 8.18, (s, 1H), 8.22, (d, 1H), 8.59, (d, 1H), 9.02, (d, 1H), 10.59, (s, 1H)	
ER-899121		366.42	0.0200	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(oxetan-3-yl)methylmorpholine-2-carboxamide	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.28-1.33 (d, 3H), 2.67-2.81 (m, 2H), 3.14-3.23 (m, 1H), overlapping with signal of CD ₃ OD, 3.32-3.39 (m, 1H), 3.48-3.53 (d, 2H), 3.64-3.70 (m, 1H), 4.05-4.15 (m, 1H), 4.38-4.48 (m, 3H), 4.69-4.76 (m, 2H), 7.21-7.25 (d, 1H), 7.60-7.65 (dd, 1H), 8.10-8.14 (d, 1H), 8.61-8.66 (dd, 1H), 8.94-8.97 (dd, 1H)	LCMS (ESI+) calcd for C ₂₀ H ₂₂ N ₄ O ₃ (M+H+): 367.17; found: 367.29
ER-899122		380.45	0.0080	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(tetrahydro-2H-pyran-4-yl)morpholine-2-carboxamide	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.28-1.35 (d, 3H), 1.55-1.70 (m, 2H), 1.71-1.84 (m, 2H), 2.65-2.83 (m, 2H), 3.32-3.41 (m, 1H), 3.41-3.51 (m, 2H), 3.62-3.72 (m, 1H), 3.88-4.00 (m, 3H), 4.05-4.18 (m, 1H), 4.41-4.48 (dd, 1H), 7.23-7.28 (d, 1H), 7.62-7.67 (dd, 1H), 8.13-8.16 (d, 1H), 8.63-8.68 (dd, 1H), 8.96-9.00 (dd, 1H)	LCMS (ESI+) calcd for C ₂₁ H ₂₄ N ₄ O ₃ (M+H+): 381.19; found: 381.3
ER-899123		366.42	0.0655	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(tetrahydrofuran-3-yl)morpholine-2-carboxamide	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.30-1.34 (d, 3H), 1.85-1.96 (m, 1H), 2.17-2.30 (m, 1H), 2.67-2.76 (t, 1H), 2.76-2.85 (t, 1H), 3.34-3.41 (d, 1H), 3.60-3.70 (m, 2H), 3.75-3.82 (q, 1H), 3.82-3.89 (m, 1H), 3.90-3.98 (q, 1H), 4.09-4.18 (m, 1H), 4.40-4.49 (m, 2H), 7.24-7.28 (d, 1H), 7.62-7.67 (dd, 1H), 8.12-8.16 (d, 1H), 8.63-8.68 (dd, 1H), 8.96-8.99 (dd, 1H)	LCMS (ESI+) calcd for C ₂₀ H ₂₂ N ₄ O ₃ (M+H+): 367.17; found: 367.25
ER-899131		366.42	0.0423	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(3-methoxytetrahydro-2-methylmorpholine-2-carboxamide	δ 1.14, (s, 3H), 1.21, (d, 3H), 2.64, (t, 1H), 2.75, (t, 1H), 3.11, (d, 2H), 3.34, (d, 1H), 3.52, (d, 1H), 4.05, (m, 1H), 4.09, (d, 2H), 4.36, (d, 2H), 4.41, (d, 1H), 7.22, (d, 1H), 7.66, (dd, 1H), 8.00, (t, 1H), 8.20, (d, 1H), 8.56, (d, 1H), 9.01, (d, 1H)	
ER-899132		378.43	0.1470	>10.0	5-((2R,6R)-2-methyl-6-(2-oxa-6-azaspiro[3.3]heptane-6-carbonyl)morpholino)quinoline-8-carbonitrile	δ 1.16, (d, 3H), 2.59, (t, 1H), 2.83, (t, 1H), 3.31, (d, 1H), 3.39, (d, 1H), 3.95, (m, 1H), 4.01, (s, 2H), 4.44, (m, 1H), 4.46, (s, 2H), 4.62, (m, 4H), 7.21, (d, 1H), 7.64, (dd, 1H), 8.20, (d, 1H), 8.52, (d, 1H), 9.00, (d, 1H)	

FIG. 6XXX

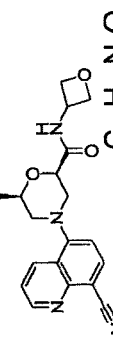
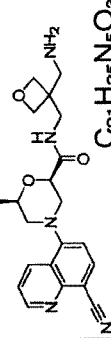
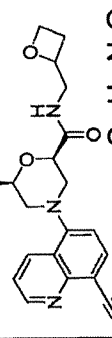
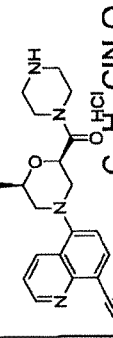
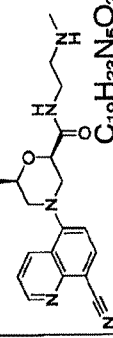
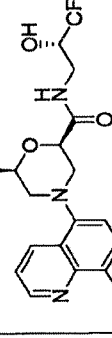
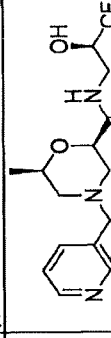
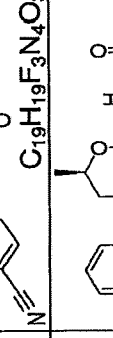
ER-899133	 C ₁₉ H ₂₀ N ₄ O ₃	378.43	0.1280	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(oxetan-3-yl)morpholine-2-carboxamide	δ 1.22, (d, 3H), 2.63, (t, 1H), 2.77, (t, 1H), 3.34, (d, 1H), 3.49, (d, 1H), 4.02, (m, 1H), 4.36, (d, 1H), 4.50, (m, 2H), 4.62, (m, 2H), 4.79, (m, 1H), 7.22, (d, 1H), 7.65, (dd, 1H), 8.20, (d, 1H), 8.55, (t, 1H), 9.01, (d, 1H)	
ER-899134	 C ₂₁ H ₂₅ N ₅ O ₃	395.46	0.0640	>10.0	(2R,6R)-N-(3-(aminomethyl)oxetan-3-yl)methyl-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	δ 1.20, (d, 3H), 2.62, (m, 3H), 2.72, (t, 1H), 3.09, (m, 1H), 3.32, (m, 4H), 3.52, (d, 1H), 4.03, (m, 1H), 4.24, (m, 2H), 4.41, (d, 1H), 7.21, (d, 1H), 7.65, (dd, 1H), 8.12, (t, 1H), 8.20, (d, 1H), 8.56, (d, 1H), 9.01, (d, 1H)	
ER-899135	 C ₂₀ H ₂₂ N ₄ O ₃	366.42	0.2520	>10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(oxetan-2-yl)methylmorpholine-2-carboxamide	δ 1.20, (d, 3H), 2.28, (m, 1H), 2.53, (m, 1H), 2.63, (m, 1H), 2.75, (t, 1H), 3.28, (m, 1H), 3.34, (m, 2H), 3.53, (d, 1H), 4.02, (m, 1H), 4.39, (m, 3H), 4.69, (m, 1H), 7.22, (d, 1H), 7.65, (dd, 1H), 7.83, (m, 1H), 8.20, (d, 1H), 8.57, (d, 1H), 9.01, (d, 1H)	
ER-899136	 C ₂₀ H ₂₄ ClN ₅ O ₂	378.43	0.1080	>10.0	5-((2R,6R)-2-methyl-6-(piperazine-1-carbonyl)morpholino)quinoline-8-carbonitrile hydrochloride	δ 1.14, (d, 3H), 2.63, (t, 1H), 2.98, (m, 5H), 3.33, (m, 3H), 3.45, (m, 2H), 3.54, (m, 1H), 4.02, (m, 1H), 4.69, (d, 1H), 7.21, (d, 1H), 7.63, (dd, 1H), 8.21, (d, 1H), 8.57, (d, 1H), 8.75, (br, s, 2H), 9.00, (d, 1H)	
ER-899140	 C ₁₉ H ₂₃ N ₅ O ₂	353.42	0.0160	3.271	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(2-(methylamino)ethyl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.30-1.35 (d, 3H), 2.43 (s, 3H), 2.67-2.85 (m, 4H), 3.33-3.48 (m, 3H), 3.67-3.74 (m, 1H), 4.10-4.18 (m, 1H), 4.45-4.51 (dd, 1H), 7.25-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.13-8.17 (d, 1H), 8.65-8.69 (dd, 1H), 8.97-9.00 (dd, 1H). Exact mass calculated: 353.4	LCMS (ESI+) calcd for C ₁₉ H ₂₃ N ₅ O ₂ (M+H ⁺): 354.19; found: 354.3
ER-899151	 C ₁₉ H ₁₉ F ₃ N ₄ O ₃	408.38	0.0330	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((S)-3,3,3-trifluoro-2-hydroxypropyl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.30-1.35 (d, 3H), 2.66-2.83 (m, 2H), 3.32-3.42 (m, 2H), 3.58-3.65 (dd, 1H), 3.65-3.73 (m, 1H), 4.05-4.20 (m, 2H), 4.47-4.53 (dd, 1H), 7.23-7.28 (d, 1H), 7.62-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H).	LCMS (ESI+) calcd for C ₁₉ H ₁₉ F ₃ N ₄ O ₃ (M+H ⁺): 409.14; found: 409.24
ER-899152	 C ₁₉ H ₁₉ F ₃ N ₄ O ₃	408.38	0.0260	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-3,3,3-trifluoro-2-hydroxypropyl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.30-1.35 (d, 3H), 2.66-2.83 (m, 2H), 3.32-3.42 (m, 2H), 3.58-3.65 (dd, 1H), 3.65-3.73 (m, 1H), 4.05-4.20 (m, 2H), 4.47-4.53 (dd, 1H), 7.23-7.28 (d, 1H), 7.62-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H).	LCMS (ESI+) calcd for C ₁₉ H ₁₉ F ₃ N ₄ O ₃ (M+H ⁺): 409.14; found: 409.24
ER-899153	 C ₁₉ H ₂₀ N ₄ O ₄	368.39	0.0400	> 10.0	methyl 2-((2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamido)acetate	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.36 (d, 3H), 2.68-2.77 (t, 1H), 2.79-2.87 (t, 1H), 3.35-3.43 (m, 1H), 3.66-3.73 (m, 4H), 3.99 (s, 2H), 4.10-4.20 (m, 1H), 4.50-4.56 (dd, 1H), 7.25-7.30 (d, 1H), 7.62-7.68 (dd, 1H), 8.12-8.18 (d, 1H), 8.64-8.70 (dd, 1H), 8.95-9.00 (dd, 1H)	LCMS (ESI+) calcd for C ₁₉ H ₂₀ N ₄ O ₄ (M+H ⁺): 369.15; found: 369.19

FIG. 6YYY

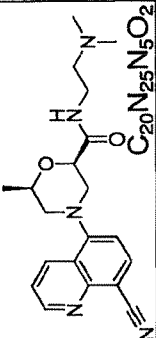
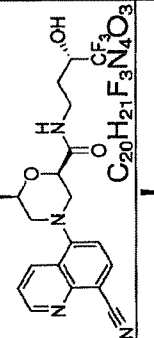
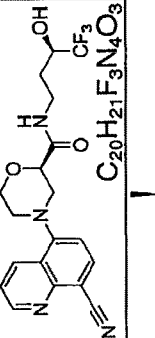
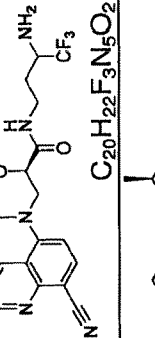
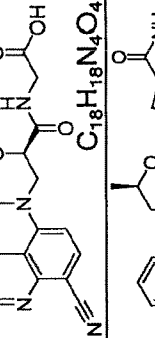
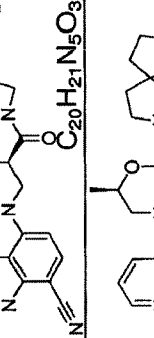
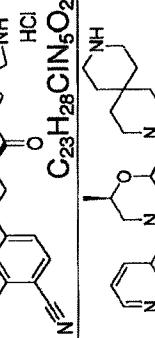
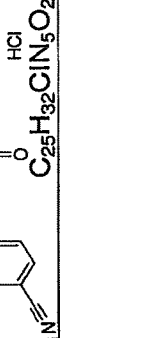
ER-899154	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{20}H_{25}N_5O_2$	367.45	0.0150	> 10.0	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.28-1.35 (d, 3H), 2.65-2.72 (t, 1H), 2.81 (s, 6H), 3.10-3.18 (t, 2H), 3.26-3.30 (m, 1H), 3.35-3.40 (d, 1H), 3.50-3.58 (m, 1H), 3.60-3.72 (m, 2H), 4.08-4.18 (m, 1H), 4.47-4.53 (dd, 1H), 7.20-7.26 (d, 1H), 7.60-7.65 (dd, 1H), 8.08-8.15 (d, 1H), 8.60-8.66 (dd, 1H), 8.94-8.98 (dd, 1H).	LCMS (ESI+) calcd for C ₂₀ H ₂₅ N ₅ O ₄ (M+H+): 368.20; found: 368.27
ER-899159	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{20}H_{21}F_3N_4O_3$	422.40	0.0360	> 10.0	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.37 (d, 3H), 1.67-1.78 (m, 1H), 1.87-1.96 (m, 1H), 2.67-2.83 (m, 2H), 3.35-3.54 (m, 3H), 3.68-3.75 (m, 1H), 3.94-4.00 (m, 1H), 4.12-4.20 (m, 1H), 4.45-4.52 (dd, 1H), 7.25-7.30 (d, 1H), 7.64-7.70 (dd, 1H), 8.13-8.19 (d, 1H), 8.66-8.70 (dd, 1H), 8.97-9.01 (dd, 1H).	LCMS (ESI+) calcd for C ₂₀ H ₂₁ F ₃ N ₄ O ₃ (M+H+): 423.16; found: 423.19
ER-899160	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{20}H_{21}F_3N_4O_3$	422.40	0.0290	> 10.0	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.37 (d, 3H), 1.67-1.78 (m, 1H), 1.87-1.96 (m, 1H), 2.67-2.83 (m, 2H), 3.35-3.53 (m, 3H), 3.68-3.75 (m, 1H), 3.91-4.00 (m, 1H), 4.12-4.19 (m, 1H), 4.45-4.52 (dd, 1H), 7.25-7.30 (d, 1H), 7.63-7.69 (dd, 1H), 8.13-8.18 (d, 1H), 8.65-8.70 (dd, 1H), 8.97-9.01 (dd, 1H).	LCMS (ESI+) calcd for C ₂₀ H ₂₁ F ₃ N ₄ O ₃ (M+H+): 423.16; found: 423.2
ER-899161	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{20}H_{22}F_3N_5O_2$	421.42	0.0350	> 10.0	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.36 (d, 3H), 1.53-1.63 (m, 1H), 1.90-2.00 (m, 1H), 2.68-2.83 (m, 2H), 3.16-3.23 (m, 1H), 3.35-3.52 (m, 3H), 3.67-3.74 (d, 1H), 4.09-4.19 (m, 1H), 4.46-4.51 (dt, 1H), 7.25-7.29 (dd, 1H), 7.63-7.68 (dd, 1H), 8.13-8.17 (d, 1H), 8.65-8.70 (dd, 1H), 8.97-9.00 (dd, 1H).	LCMS (ESI+) calcd for C ₂₀ H ₂₂ F ₃ N ₅ O ₂ (M+H+): 422.18; found: 422.21
ER-899162	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{18}H_{18}N_4O_4$	354.36	0.4280	> 10.0	^1H NMR (400 MHz, CD ₃ OD) δ ppm: 1.30-1.35 (d, 3H), 2.68-2.76 (dd, 1H), 2.79-2.88 (dd, 1H), 3.35-3.42 (m, 1H), 3.66-3.73 (m, 1H), 3.92-3.97 (m, 2H), 4.11-4.20 (m, 1H), 4.49-4.55 (dd, 1H), 7.23-7.28 (d, 1H), 7.62-7.67 (dd, 1H), 8.12-8.16 (d, 1H), 8.64-8.69 (dd, 1H), 8.95-8.99 (dd, 1H).	LCMS (ESI+) calcd for C ₁₈ H ₁₈ N ₄ O ₄ (M+H+): 355.14; found: 355.22
ER-899191	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{20}H_{21}N_5O_3$	379.42	0.0920	> 10.0	δ 1.15 (d, 3H), 2.60 (t, 1H), 2.84 (t, 1H), 3.29 (m, 1H), 3.41 (d, 1H), 3.89 (m, 1H), 3.94 (m, 2H), 4.29 (m, 1H), 4.39 (m, 1H), 4.49 (m, 1H), 7.02 (s, 1H), 7.21 (d, 1H), 7.44 (s, 1H), 7.64 (dd, 1H), 8.20 (d, 1H), 8.54 (d, 1H), 9.01 (d, 1H).	
ER-899192	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{23}H_{28}ClN_5O_2$	379.42	0.0780	0.365	δ 1.15 (d, 3H), 1.87 (m, 4H), 2.63 (m, 1H), 2.95 (m, 1H), 3.09 (m, 2H), 3.23 (m, 2H), 3.35 (m, 4H), 3.56 (m, 1H), 3.67 (m, 1H), 3.99 (m, 1H), 4.59 (d, 1H), 7.22 (d, 1H), 7.64 (m, 1H), 8.21 (d, 1H), 8.55 (d, 1H), 9.01 (d, 1H), 9.21 (br s, 2H).	
ER-899193	 <chem>CN(C)CCNC(=O)C1CN(C)CC1c2ccc3c(c2)c4ccccc4n3</chem> $C_{25}H_{32}ClN_5O_2$	470.01	0.0192	0.087	δ 1.15 (d, 3H), 2.65 (t, 1H), 2.97 (t, 1H), 3.03 (m, 2H), 3.18 (m, 1H), 3.35 (m, 2H), 3.64 (m, 2H), 3.79 (m, 2H), 4.00 (m, 10H), 4.74 (d, 1H), 7.23 (d, 1H), 7.63 (dd, 1H), 8.22 (d, 1H), 8.55 (d, 1H), 9.01 (d, 1H), 9.22 (br s, 2H).	

FIG. 6ZZZ

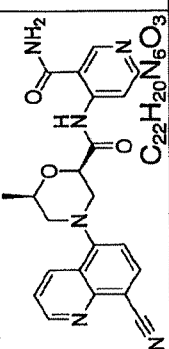
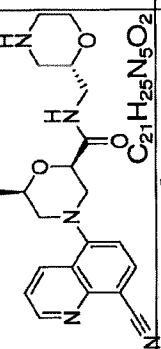
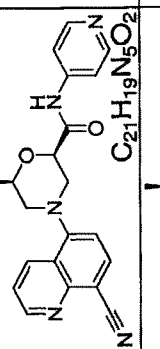
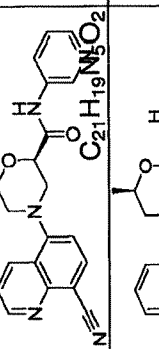
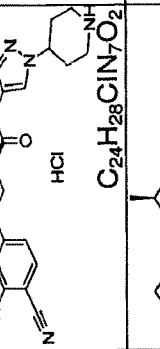
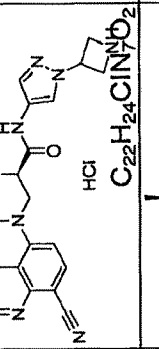
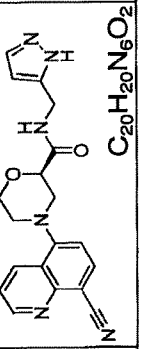
ER-899196	 C ₂₂ H ₂₀ N ₆ O ₃	416.44	0.0640	> 10.0	(2R,6R)-N-(3-carbamoylpyridin-4-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	LCMS (ESI+) calcd for C ₂₁ H ₂₅ N ₅ O ₃ (M+H ⁺): 396.20; found: 396.33
ER-899278	 C ₂₁ H ₂₅ N ₅ O ₂	395.46	0.0020	10.207	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(pyridin-4-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	
ER-899282	 C ₂₁ H ₁₉ N ₅ O ₂	373.41	0.0150	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(pyridin-4-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	
ER-899283	 C ₂₁ H ₁₉ N ₅ O ₂	373.41	0.0680	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(pyridin-3-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	
ER-899285	 C ₂₄ H ₂₈ ClN ₇ O ₂	481.99	0.0110	1.264	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(1-(azetidin-3-yl)-1H-pyrazol-4-yl)morpholine-2-carboxamide hydrochloride	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	
ER-899286	 C ₂₂ H ₂₄ ClN ₇ O ₂	453.93	0.0480	1.071	(2R,6R)-N-(1-(azetidin-3-yl)-1H-pyrazol-4-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	
ER-899287	 C ₂₀ H ₂₀ N ₆ O ₂	376.42	0.0300	> 10.0	(2R,6R)-N-(1H-pyrazol-5-yl)methyl-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.34 (d, 3H), 2.45-2.54 (m, 1H), 2.68-2.90 (m, 5H), 3.25-3.42 (m, 3H) (partially overlapped with CD ₃ OD signal), 3.52-3.75 (m, 3H), 3.83-3.89 (m, 1H), 4.09-4.17 (m, 1H), 4.46-4.51 (dd, 1H), 7.24-7.28 (d, 1H), 7.63-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H), 9.02 (d, 1H), 12.58 (s, 1H)	

FIG. 6A AAA

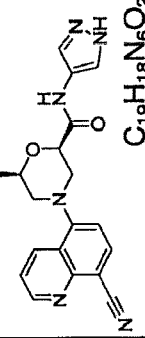
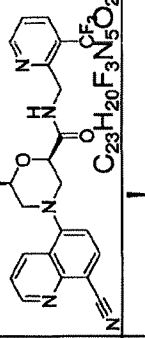
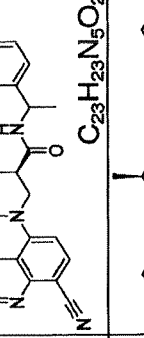
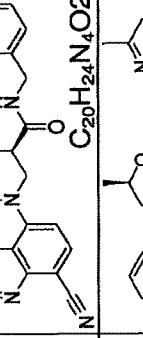
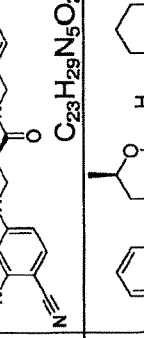
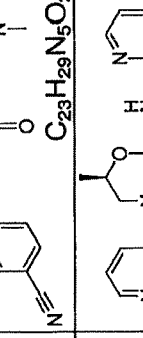
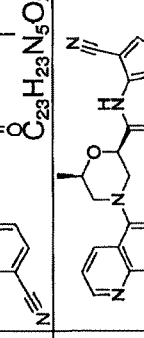
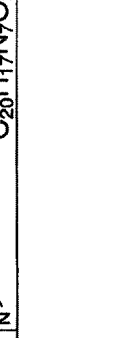
ER-899288	 C ₁₉ H ₁₈ N ₆ O ₂	376.42	0.1460	> 10.0	(2R,6R)-N-((1H-pyrazol-4-yl)methyl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	δ 1.25, (d, 3H), 2.66, (t, 1H), 2.86, (t, 1H), 3.37, (d, 1H), 3.58, (d, 1H), 4.07, (m, 1H), 4.50, (d, 1H), 7.24, (d, 1H), 7.67, (dd, 1H), 7.72, (m, 1H), 8.21, (d, 1H), 8.58, (d, 1H), 9.01, (d, 1H), 9.80, (s, 1H), 12.55, (s, 1H)	
ER-899289	 C ₂₃ H ₂₀ F ₃ N ₅ O ₂	455.44	0.0480	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(3-(trifluoromethyl)pyridin-2-yl)methylmorpholine-2-carboxamide	δ 1.23, (d, 3H), 2.67, (t, 1H), 2.80, (t, 1H), 3.37, (d, 1H), 3.56, (d, 1H), 4.07, (m, 1H), 4.49, (d, 1H), 4.57, (m, 2H), 7.23, (d, 1H), 7.51, (m, 1H), 7.66, (dd, 1H), 8.13, (d, 1H), 8.21, (d, 1H), 8.28, (t, 1H), 8.58, (d, 1H), 8.78, (d, 1H), 9.01, (d, 1H)	
ER-899290	 C ₂₃ H ₂₃ N ₅ O ₂	401.47	0.0550	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(1-pyridin-2-yl)ethylmorpholine-2-carboxamide	δ 1.22, (d, 3H), 1.35, (d, 3H), 2.67, (t, 1H), 2.78, (m, 1H), 3.34, (m, 1H), 3.53, (t, 1H), 4.05, (m, 1H), 4.44, (t, 1H), 4.98, (t, 1H), 7.23, (m, 2H), 7.34, (t, 1H), 7.65, (dd, 1H), 7.73, (t, 1H), 8.15, (m, 1H), 8.20, (t, 1H), 8.49, (d, 1H), 8.56, (d, 1H), 9.01, (d, 1H)	
ER-899291	 C ₂₀ H ₂₄ N ₄ O ₂	387.44	0.0530	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(pyridin-2-yl)methylmorpholine-2-carboxamide	δ 1.22, (d, 3H), 2.66, (t, 1H), 2.80, (t, 1H), 3.36, (d, 1H), 3.57, (d, 1H), 4.06, (m, 1H), 4.37, (d, 2H), 4.47, (d, 1H), 7.23, (m, 3H), 7.66, (dd, 1H), 7.71, (t, 1H), 8.21, (d, 1H), 8.40, (t, 1H), 8.45, (d, 1H), 8.57, (d, 1H), 9.01, (d, 1H)	
ER-899292	 C ₂₃ H ₂₅ N ₅ O ₂	401.47	0.1060	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((6-methylpyridin-2-yl)methyl)morpholine-2-carboxamide	δ 1.22, (d, 3H), 2.39, (s, 3H), 2.66, (t, 1H), 2.80, (t, 1H), 3.36, (d, 1H), 3.57, (d, 1H), 4.05, (m, 1H), 4.32, (d, 2H), 4.47, (d, 1H), 7.01, (d, 1H), 7.07, (d, 1H), 7.24, (d, 1H), 7.59, (t, 1H), 7.65, (dd, 1H), 8.21, (d, 1H), 8.42, (t, 1H), 8.57, (d, 1H), 9.01, (d, 1H)	
ER-899293	 C ₂₃ H ₂₉ N ₅ O ₂	407.52	0.0050	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((1-methylpiperidin-2-yl)methyl)morpholine-2-carboxamide	δ 1.13, (m, 2H), 1.20, (d, 3H), 1.33, (m, 1H), 1.45, (m, 1H), 1.59, (m, 1H), 1.92, (m, 2H), 2.14, (s, 3H), 2.62, (m, 1H), 2.70, (m, 2H), 3.07, (m, 2H), 3.34, (d, 1H), 3.52, (d, 1H), 4.02, (m, 1H), 4.38, (d, 1H), 7.22, (d, 1H), 7.48, (br t, 1H), 7.66, (dd, 1H), 8.20, (d, 1H), 8.56, (d, 1H), 9.01, (d, 1H)	
ER-899294	 C ₂₃ H ₂₃ N ₅ O ₂	401.47	0.1960	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(3-methylpyridin-2-yl)methylmorpholine-2-carboxamide	δ 1.23, (d, 3H), 2.23, (s, 3H), 2.67, (t, 1H), 2.79, (t, 1H), 3.37, (d, 1H), 3.58, (d, 1H), 4.07, (m, 1H), 4.38, (m, 2H), 4.48, (d, 1H), 7.19, (dd, 1H), 7.23, (d, 1H), 7.55, (d, 1H), 7.66, (dd, 1H), 8.21, (d, 1H), 8.28, (t, 1H), 8.33, (d, 1H), 8.58, (d, 1H), 9.01, (d, 1H)	
ER-899295	 C ₂₀ H ₁₇ N ₇ O ₂	387.40	0.0320	> 10.0	(2R,6R)-N-(4-cyano-1H-pyrazol-3-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide		

FIG. 6BBBB

ER-899332		397.45	0.0228	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((3S,4R)-4-fluoro-1-methylpyrrolidin-3-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.34 (3 H), 2.41 (3 H), 2.67 (2 H), 2.84 (2 H), 2.97 (1 H), 3.30 (1 H), 3.80 (1 H), 4.10 (1 H), 4.46 (1 H), 4.60 (1 H), 5.02 (1 H), 5.16 (1 H), 7.13 (2 H), 7.54 (1 H), 8.05 (1 H), 8.48 (1 H), 9.09 (1 H).	LCMS (ESI+) calcd for C ₂₁ H ₂₄ FN ₅ O ₃ (M+H ⁺): 398.19; found: 398.4
ER-899333		447.94	0.0820	7.352	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((3S,4R)-4-fluoropiperidin-3-yl)-N,6-dimethylmorpholine-2-carboxamide hydrochloride	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.25 (4 H), 1.94 (1 H), 2.30 (2 H), 2.75 (2 H), 2.92 (1 H), 3.21 (4 H), 3.53 (6 H), 4.15 (1 H), 7.34 (1 H), 7.74 (1 H), 8.23 (1 H), 8.82 (1 H), 9.00 (1 H).	LCMS (ESI+) calcd for C ₂₂ H ₂₆ FN ₅ O ₂ (M+H ⁺): 412.60; found: 412.21
ER-899334		365.43	0.1590	> 10.0	5-((2R,6R)-2-(3-(aminomethyl)azetidine-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.29 (3 H), 1.60 (2 H), 2.68 (1 H), 2.81 (2 H), 2.96 (1 H), 3.29 (1 H), 3.38 (1 H), 3.65 (1 H), 3.74 (1 H), 4.02 (1 H), 4.14 (2 H), 4.50 (1 H), 4.69 (1 H), 7.12 (1 H), 7.53 (1 H), 8.06 (1 H), 8.46 (1 H), 9.09 (1 H).	LCMS (ESI+) calcd for C ₂₀ H ₂₃ N ₅ O ₃ (M+H ⁺): 366.19; found: 366.26
ER-899335		393.49	0.0153	17.740	5-((2R,6R)-2-(3-((ethylamino)methyl)azetidine-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CHLOROFORM-d ₁) δ ppm 1.15 (4 H), 1.22 (1 H), 1.30 (3 H), 2.70 (2 H), 2.92 (3 H), 3.29 (1 H), 3.39 (1 H), 3.65 (1 H), 3.74 (1 H), 4.02 (1 H), 4.13 (2 H), 4.52 (2 H), 7.11 (1 H), 7.53 (1 H), 8.05 (1 H), 8.45 (1 H), 9.09 (1 H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H ⁺): 394.22; found: 394.22
ER-899336		393.49	0.0373	> 10.0	5-((2R,6R)-2-(3-((dimethylamino)methyl)azetidin-6-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile		LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H ⁺): 394.22; found: 394.22
ER-899337		407.52	0.0030	7.386	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((1-methylazepan-4-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CHLOROFORM-d ₁) 1.30 (3 H), 1.80 (7 H), 2.39 (3 H), 2.54 (2 H), 2.98 (3 H), 3.28 (1 H), 3.79 (1 H), 4.07 (1 H), 4.17 (1 H), 4.37 (1 H), 7.06 (2 H), 7.51 (1 H), 8.02 (1 H), 8.46 (1 H), 9.06 (1 H).	LCMS (ESI+) calcd for C ₂₃ H ₂₉ N ₅ O ₂ (M+H ⁺): 408.24; found: 408.1
ER-899366		409.49	0.0030	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((2R,6R)-6-methylmorpholin-2-yl)methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.11-1.14 (d, 3H), 1.32-1.35 (d, 3H), 2.32-2.47 (m, 2H), 2.69-2.88 (m, 4H), 3.20-3.28 (m, 1H), 3.32-3.42 (m, 2H), 3.55-3.75 (m, 3H), 4.11-4.19 (m, 1H), 4.47-4.53 (dd, 1H), 7.25-7.29 (d, 1H), 7.63-7.68 (dd, 1H), 8.13-8.17 (d, 1H), 8.65-8.70 (dd, 1H), 8.97-9.00 (dd, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₃ (M+H ⁺): 410.21; found: 410.3
ER-899367		391.47	0.1190	0.684	5-((2R,6R)-2-methyl-6-(octahydropyrrolo[3,4-c]pyrrole-2-carbonyl)morpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.25-1.30 (dd, 3H), 2.65-2.75 (t, 1H), 2.75-3.10 (m, 5H), 3.15-3.25 (m, 2H), 3.35-3.55 (m, 3H), 3.55-3.70 (m, 2H), 3.80-3.84 (m, 1H), 4.08-4.20 (m, 1H), 4.67-4.74 (d, 1H), 7.25-7.30 (d, 1H), 7.60-7.65 (dd, 1H), 8.13-8.18 (d, 1H), 8.63-8.69 (d, 1H), 8.95-8.99 (d, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₅ N ₅ O ₂ (M+H ⁺): 392.20; found: 392.36

FIG. 6CCCC

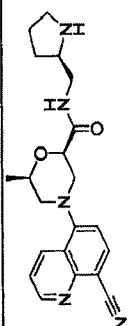
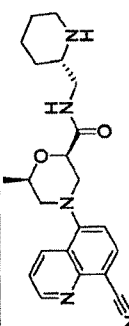
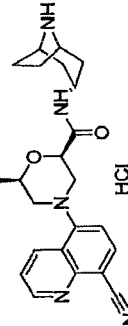
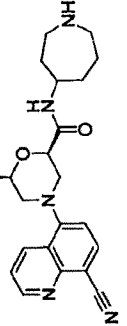
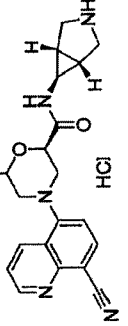
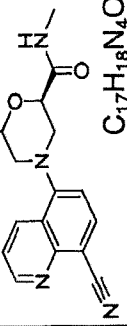
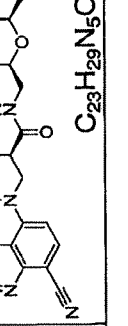
ER-899414		415.92	0.0130	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-pyrrolidin-2-ylmethyl)morpholine-2-carboxamide hydrochloride	δ 1.21, (d, 3H), 1.56, (m, 1H), 1.81, (m, 2H), 1.92, (m, 1H), 2.62, (t, 1H), 2.78, (t, 1H), 3.10, (m, 2H), 3.36, (m, 4H), 3.53, (d, 1H), 4.03, (m, 1H), 4.40, (d, 1H), 7.22, (d, 1H), 7.66, (dd, 1H), 8.19, (m, 1H), 8.22, (d, 1H), 8.56, (d, 1H), 8.61, (br s, 1H), 9.02, (d, 1H), 9.20, (br s, 1H)	
ER-899415		429.95	0.0050	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((S)-piperidin-2-ylmethyl)morpholine-2-carboxamide hydrochloride	δ 1.22, (d, 3H), 1.35, (m, 2H), 1.53, (m, 1H), 1.69, (m, 3H), 2.64, (t, 1H), 2.80, (m, 2H), 3.07, (m, 1H), 3.18, (d, 1H), 3.31, (m, 3H), 4.03, (m, 1H), 4.41, (d, 1H), 7.22, (d, 1H), 7.66, (dd, 1H), 8.13, (t, 1H), 8.23, (d, 1H), 8.44, (br s, 1H), 8.57, (d, 1H), 8.66, (br s, 1H), 9.02, (d, 1H)	
ER-899416		441.96	0.0040	> 10.0	(2R,6R)-N-((1R,3R,5S)-8-azabicyclo[3.2.1]octan-3-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.17, (d, 3H), 1.94, (m, 4H), 2.10, (m, 4H), 2.61, (t, 1H), 2.81, (t, 1H), 3.36, (d, 1H), 3.45, (d, 1H), 3.80, (m, 1H), 3.87, (m, 2H), 4.01, (m, 1H), 4.41, (d, 1H), 7.22, (d, 1H), 7.65, (dd, 1H), 7.71, (d, 1H), 8.21, (d, 1H), 8.58, (d, 1H), 8.71, (br s, 1H), 8.89, (br s, 1H), 9.01, (d, 1H)	
ER-899417		429.95	0.0002		(2R,6R)-N-(azepan-4-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.20, (d, 3H), 1.61, (m, 2H), 1.84, (m, 4H), 2.62, (t, 1H), 2.76, (t, 1H), 2.96, (m, 2H), 3.12, (m, 2H), 3.33, (d, 1H), 3.48, (d, 1H), 3.86, (m, 1H), 4.00, (m, 1H), 4.34, (d, 1H), 7.21, (d, 1H), 7.65, (dd, 1H), 7.80, (d, 1H), 8.21, (d, 1H), 8.56, (d, 1H), 8.78, (br s, 1H), 8.89, (br s, 1H), 9.01, (d, 1H)	
ER-899418		413.91	0.0200	> 10.0	(2R,6R)-N-((1R,5S,6S)-3-azabicyclo[3.1.0]hexan-6-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.17, (d, 3H), 1.91, (m, 2H), 2.60, (t, 1H), 2.76, (m, 2H), 3.27, (m, 4H), 3.33, (d, 1H), 3.47, (d, 1H), 3.98, (m, 1H), 4.33, (d, 1H), 7.20, (d, 1H), 7.65, (dd, 1H), 8.02, (d, 1H), 8.21, (d, 1H), 8.55, (d, 1H), 8.81, (br s, 1H), 9.01, (d, 1H), 9.38, (br s, 1H)	LCMS (ESI+) calcd for C17H18N4O2 (M+H+): 311.15; found: 310.9
ER-899431		310.36	0.0880	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N,6-dimethylmorpholine-2-carboxamide	^1H NMR (400 MHz, CHLOROFORM- d) δ ppm: 1.26 (t, J=7.15 Hz, 1H), 1.30 - 1.35 (m, 3H), 1.87 (br s, 1H), 2.04 (s, 1H), 2.67 (dd, J=11.92, 10.32 Hz, 1H), 2.76 (dd, J=11.94, 10.95 Hz, 1H), 2.88 (d, J=5.00 Hz, 3H), 3.30 (dt, J=11.96, 2.01 Hz, 1H), 3.81 (dt, J=12.08, 2.27 Hz, 1H), 4.02 - 4.19 (m, 2H), 4.43 (dd, J=10.74, 2.57 Hz, 1H), 6.72 (d, J=4.50 Hz, 1H), 7.08 (d, J=8.01 Hz, 1H), 7.53 (dd, J=8.56, 4.22 Hz, 1H), 8.03 (d, J=7.97 Hz, 1H), 8.48 (dd, J=6.56, 1.66 Hz, 1H), 9.07 (dd, J=4.20, 1.64 Hz, 1H)	LCMS (ESI+) calcd for C23H29N5O2 (M+H+): 424.23; found: 424.28
ER-899457		423.51	0.0110	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(((2S,6R)-4,6-dimethylmorpholin-2-yl)methyl)-6-methylmorpholine-2-carboxamide	^1H NMR (400 MHz, CD3OD) δ ppm: 1.14-1.17 (d, 3H), 1.31-1.35 (d, 3H), 1.75-1.88 (m, 2H), 2.28-2.33 (s, 3H), 2.68-2.83 (m, 4H), 3.33-3.41 (m, 2H), 3.60-3.73 (m, 3H), 4.09-4.19 (m, 1H), 4.45-4.52 (dd, 1H), 7.24-7.29 (d, 1H), 7.62-7.68 (dd, 1H), 8.12-8.17 (d, 1H), 8.64-8.69 (dd, 1H), 8.96-9.00 (dd, 1H)	LCMS (ESI+) calcd for C23H29N5O2 (M+H+): 424.23; found: 424.28

FIG. 6DDDD

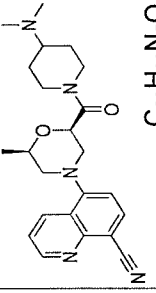
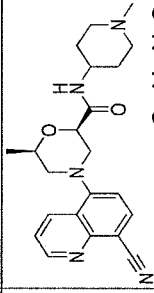
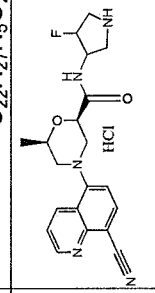
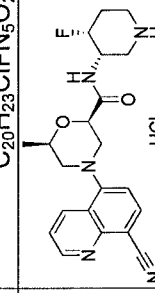
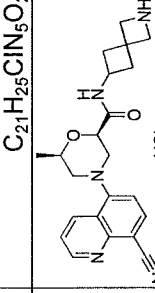
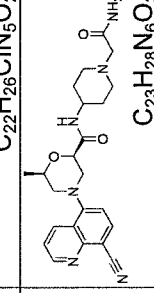
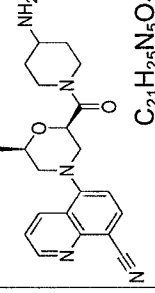
ER-899459		407.52	0.0560	> 10.0	5-((2R,6R)-2-(4-(dimethylamino)piperidin-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.23-1.65 (m, 5H), 1.90-2.05 (m, 2H), 2.30-2.36 (d, 6H), 2.45-2.75 (m, 3H), 3.04-3.23 (m, 2H), 3.35-3.50 (m, 2H), 4.10-4.21 (m, 1H), 4.21-4.32 (m, 1H), 4.50-4.60 (m, 1H), 4.75-4.85 (m, 1H), 7.26-7.32 (d, 1H), 7.58-7.67 (m, 1H), 8.13-8.18 (d, 1H), 8.63-8.70 (m, 1H), 8.94-9.00 (m, 1H).	LCMS (ESI+) calcd for C ₂₃ H ₂₉ N ₅ O ₂ (M+H ⁺): 408.24; found: 408.37
ER-899464		393.49	0.0048	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(1-methylpiperidin-4-yl)morpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.31-1.36 (d, 3H), 1.57-1.70 (m, 2H), 1.79-1.91 (m, 2H), 2.11-2.22 (m, 2H), 2.30 (s, 3H), 2.68-2.93 (m, 4H), 3.35-3.41 (m, 1H), 3.64-3.80 (m, 2H), 4.09-4.18 (m, 1H), 4.43-4.48 (m, 1H), 7.24-7.28 (d, 1H), 7.62-7.68 (dd, 1H), 8.12-8.16 (d, 1H), 8.64-8.68 (m, 1H), 8.96-8.99 (m, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H ⁺): 394.22; found: 394.3
ER-899476		419.89	0.0050	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(4-fluoropyrrolidin-3-yl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.21 (d, 3H), 2.63 (t, 1H), 2.80 (t, 1H), 3.24 (m, 2H), 3.45 (m, 4H), 4.03 (m, 1H), 4.45 (t, 1H), 5.10 (m, 1H), 5.23 (m, 1H), 7.23 (d, 1H), 7.65 (dd, 1H), 8.12 (t, 1H), 8.21 (d, 1H), 8.57 (d, 1H), 9.02 (dd, 1H), 9.26 (br s, 1H), 9.59 (br s, 1H)	
ER-899477		433.91	0.0160	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(3S,4R)-4-fluoropiperidin-3-yl)-6-methylmorpholine-2-carboxamide hydrochloride	δ 1.20 (d, 3H), 2.08 (m, 2H), 2.65 (t, 1H), 2.81 (t, 1H), 2.89 (m, 1H), 3.12 (m, 3H), 3.35 (d, 1H), 3.48 (d, 1H), 4.02 (m, 1H), 4.45 (d, 1H), 4.79 (m, 1H), 4.92 (m, 1H), 7.22 (d, 1H), 7.66 (dd, 1H), 7.99 (d, 1H), 8.22 (d, 1H), 8.57 (d, 1H), 8.99 (br s, 1H), 9.02 (d, 1H), 9.07 (br s, 1H)	
ER-899479		427.93	0.0070	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(2-azaspiro[3.3]heptan-6-yl)morpholine-2-carboxamide hydrochloride	δ 1.19 (d, 3H), 1.97 (m, 1H), 2.11 (m, 1H), 2.23 (m, 2H), 2.60 (t, 1H), 2.71 (t, 1H), 3.33 (d, 1H), 3.47 (d, 1H), 3.81 (m, 2H), 3.93 (m, 2H), 4.00 (m, 1H), 4.09 (m, 1H), 4.30 (d, 1H), 7.21 (d, 1H), 7.65 (dd, 1H), 7.96 (d, 1H), 8.03 (br s, 1H), 8.21 (d, 1H), 8.55 (d, 1H), 8.77 (br s, 1H), 9.01 (d, 1H)	
ER-899481		436.51	0.0150	> 10.0	(2R,6R)-N-(1-(2-amino-2-oxoethyl)piperidin-4-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CDCl ₃) δ ppm: 1.33-1.37 (d, 3H), 1.65-1.75 (m, 2H), 1.97-2.10 (m, 2H), 2.45-2.58 (m, 2H), 2.65-2.80 (m, 2H), 2.98-3.08 (m, 2H), 3.15-3.22 (s, 2H), 3.27-3.35 (d, 1H), 3.76-3.84 (d, 1H), 3.87-3.95 (m, 1H), 4.05-4.16 (m, 1H), 4.40-4.45 (dd, 1H), 5.99-6.05 (m, 1H), 6.58-6.65 (d, 1H)	LCMS (ESI+) calcd for C ₂₃ H ₂₈ N ₆ O ₂ (M+H ⁺): 437.23; found: 437.34
ER-899588		379.46	0.1170	1.376	5-((2R,6R)-2-(4-aminopiperidin-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.20-1.60 (m, 5H), 1.85-2.03 (m, 2H), 2.65-2.85 (m, 2H), 2.95-3.25 (m, 2H), 3.35-3.50 (m, 2H), 3.55-3.75 (m, 1H), 4.10-4.25 (m, 2H), 4.35-4.55 (m, 1H), 4.75-4.85 (m, 1H), 7.25-7.32 (d, 1H), 7.60-7.66 (m, 1H), 8.13-8.19 (d, 1H), 8.62-8.70 (m, 1H), 8.95-9.00 (m, 1H).	LCMS (ESI+) calcd for C ₂₁ H ₂₅ N ₅ O ₂ (M+H ⁺): 380.20; found: 380.33

FIG. 6EEEE

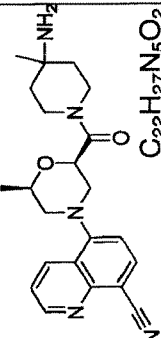
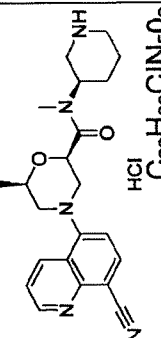
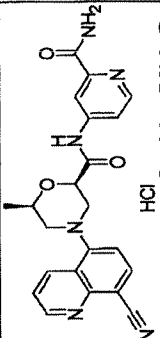
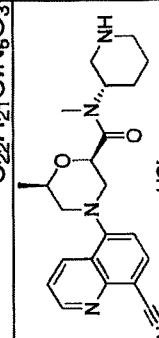
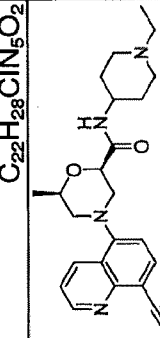
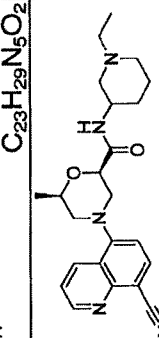
ER-899608	 <chem>C22H27N5O2</chem>	393.49	0.1041	7.040	5-((2R,6R)-2-(4-amino-4-methylpiperidin-1-carbonyl)-6-methylmorpholino)quinoline-8-carbonitrile	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.22-1.30 (m, 6H), 1.50-1.75 (m, 4H), 2.66-2.75 (t, 1H), 3.06-3.14 (dd, 1H), 3.36-3.50 (m, 2H), 3.50-3.60 (m, 1H), 3.60-3.77 (m, 2H), 3.86-3.96 (m, 1H), 4.11-4.22 (m, 1H), 4.78-4.83 (dd, 1H), 7.27-7.32 (d, 1H), 7.60-7.65 (dd, 1H), 8.14-8.19 (d, 1H), 8.65-8.69 (d, 1H), 8.96-8.99 (dd, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H+): 394.22; found: 394.3
ER-899616	 <chem>C22H27ClN5O2</chem>	429.95	0.0450	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N,6-dimethyl-N-((R)-piperidin-3-yl)morpholine-2-carboxamide hydrochloride	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm: 1.29 (d, 3H), 1.80-2.11 (m, 4H), 2.65-2.80 (m, 1H), 2.89-3.02 (m, 2H), 3.19 (s, 3H), 3.02-3.29 (m, 2H), 3.36-3.47 (m, 1H), 3.47-3.58 (m, 1H), 4.09-4.55 (m, 2H), 4.76-4.95 (m, 1H), 7.27-7.37 (m, 1H), 7.62-7.73 (m, 1H), 8.14-8.24 (m, 1H), 8.67-8.79 (m, 1H), 8.96-9.05 (m, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H+): 394.22; found: 394.32
ER-899618	 <chem>C22H28ClN5O2</chem>	452.90	0.0438	> 10.0	(2R,6R)-N-(2-carbamoylpyridin-4-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm: 1.41 (d, J=6.20 Hz, 3H), 2.78 (t, J=10.25 Hz, 1H), 2.98 (d, J=11.96, 10.68 Hz, 1H), 3.44 (dt, J=12.12, 2.06 Hz, 1H), 3.76 (d, J=12.1, 1H), 4.22-4.25 (m, 1H), 4.68 (dd, J=10.68, 2.56 Hz, 1H), 7.32 (d, J=8.12 Hz, 1H), 7.68 (dd, J=8.76, 4.27 Hz, 1H), 7.94-8.00 (m, 1H), 8.17 (d, J=7.90 Hz, 1H), 8.36 (s, 1H), 8.52 (dd, J=5.55, 0.64 Hz, 1H), 8.71 (dd, J=8.55, 1.71 Hz, 1H), 9.00 (dd, J=4.27, 1.50 Hz, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₅ N ₆ O ₃ (M+H+): 417.15; found: 417.23
ER-899619	 <chem>C22H27ClN5O2</chem>	429.95	0.4962	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N,6-dimethyl-N-((S)-piperidin-3-yl)morpholine-2-carboxamide hydrochloride	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm: 1.29 (d, 3H), 1.76-2.12 (m, 4H), 2.68-2.77 (m, 1H), 2.84-3.01 (m, 2H), 3.06-3.29 (m, 5H), 3.32-3.62 (m, 2H), 4.12-4.29 (m, 1H), 4.46-4.62 (m, 1H), 4.79-4.85 (m, 1H), 7.23-7.37 (m, 1H), 7.61-7.73 (m, 1H), 8.15-8.20 (m, 1H), 8.67-8.73 (m, 1H), 8.99 (dd, J=4.27, 1.71 Hz, 1H).	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H+): 394.22; found: 394.35
ER-899626	 <chem>C22H28ClN5O2</chem>	407.52	0.0027	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1-ethylpiperidin-4-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, METHANOL-d ₄) δ ppm: 1.30-1.38 (m, 6H), 1.92 (br. s., 2H), 2.10 (br. s., 2H), 2.73 (dd, J=12.07, 10.28 Hz, 1H), 2.81 (dd, J=11.86, 10.83 Hz, 1H), 3.01 (br. s., 2H), 3.13 (q, J=7.30 Hz, 2H), 3.35 (s, 3H), 3.37-3.44 (m, 1H), 3.54 (d, J=11.33 Hz, 2H), 3.64-3.76 (m, 1H), 4.01 (s, 1H), 4.50 (dd, J=10.68, 2.63 Hz, 1H), 7.27 (d, J=8.05 Hz, 1H), 7.66 (dd, J=8.58, 4.27 Hz, 1H), 8.16 (d, J=8.01 Hz, 1H), 8.42 (s, 1H), 8.67 (dd, J=8.58, 1.68 Hz, 1H).	LCMS (ESI+) calcd for C ₂₃ H ₂₉ N ₅ O ₂ (M+H+): 408.24; found: 408.0
ER-899680	 <chem>C23H29N5O2</chem>	407.52	0.0148	8.784	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1-ethylpiperidin-3-yl)-6-methylmorpholine-2-carboxamide	¹ H NMR (400 MHz, CD ₃ OD) δ ppm: 1.06-1.13 (m, 3H), 1.30-1.35 (d, 3H), 1.42-1.52 (m, 1H), 1.56-1.67 (m, 1H), 1.70-1.83 (m, 2H), 2.44-2.53 (m, 2H), 2.65-2.88 (m, 4H), 3.35-3.41 (m, 1H), 3.66-3.72 (m, 1H), 3.96-4.04 (m, 1H), 4.09-4.18 (m, 1H), 4.43-4.49 (dd, 1H), 7.24-7.29 (d, 1H), 7.62-7.67 (dd, 1H), 8.12-8.16 (d, 1H), 8.64-8.68 (dd, 1H), 8.96-8.99 (dd, 1H).	LCMS (ESI+) calcd for C ₂₃ H ₂₉ N ₅ O ₂ (M+H+): 408.24; found: 408.36

FIG. 6FFFF

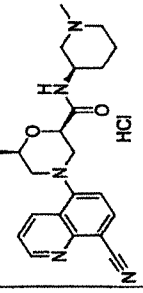
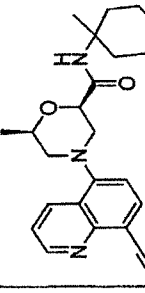
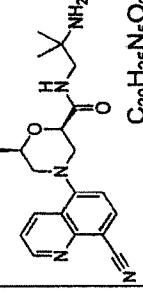
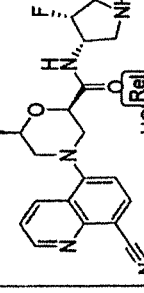
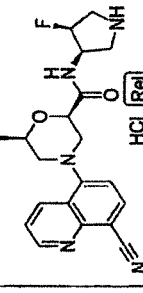
ER-899688	 C ₂₂ H ₂₈ ClN ₅ O ₂	393.49	0.0082	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((R)-1-methylpiperidin-3-yl)morpholine-2-carboxamide hydrochloride 1H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.34 (d, J=6.20 Hz, 3 H) 1.38 - 1.52 (m, 1 H) 1.83 (m, 1 H) 1.88 - 1.85 (m, 2 H) 2.19 (br. s, 2 H) 2.29 (s, 3 H) 2.58 (br. s, 1 H) 2.67 - 2.87 (m, 3 H) 3.40 (d, J=12.07 Hz, 1 H) 3.70 (dt, J=1.96, 2.24 Hz, 1 H) 3.93 - 4.06 (m, 1 H) 4.07 - 4.23 (m, 1 H) 4.47 (dd, J=10.75, 2.97 Hz, 1 H) 7.27 (d, J=7.90 Hz, 1 H) 7.66 (dd, J=8.55, 4.27 Hz, 1 H) 8.15 (d, J=8.12 Hz, 1 H) 8.67 (dd, J=8.55, 1.50 Hz, 1 H) 8.99 (dd, J=4.27, 1.50 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H+): 394.22; found: 394.28
ER-899718	 C ₂₂ H ₂₇ N ₅ O ₂	393.49	0.0030	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-((4-methylpiperidin-4-yl)morpholine-2-carboxamide 1H NMR (400 MHz, CHLOROFORM-d) δ ppm 1.20 - 1.37 (m, 5 H) 1.46 (s, 3 H) 1.87 - 2.00 (m, 2 H) 2.39 (d, J=12.51 Hz, 2 H) 2.65 - 2.80 (m, 2 H) 2.97 - 3.15 (m, 3 H) 3.17 - 3.33 (m, 3 H) 3.46 (s, 2 H) 3.75 (d, J=12.02 Hz, 1 H) 4.04 - 4.16 (m, 1 H) 4.35 (dd, J=10.72, 2.56 Hz, 1 H) 6.42 (s, 1 H) 7.10 (d, J=8.01 Hz, 1 H) 7.52 (dd, J=8.55, 4.23 Hz, 1 H) 8.03 (d, J=7.97 Hz, 1 H) 8.46 (dd, J=8.55, 1.62 Hz, 1 H) 9.06 (dd, J=4.20, 1.60 Hz, 1 H)	LCMS (ESI+) calcd for C ₂₂ H ₂₇ N ₅ O ₂ (M+H+): 394.22; found: 393.9
ER-899722	 C ₂₂ H ₂₇ N ₅ O ₂	387.45	0.0040	> 10.0	(2R,6R)-N-(2-amino-2-methylpropyl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide 1H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.07 (d, 7 H) 1.25 - 1.36 (m, 3 H) 2.64 - 2.86 (m, 3 H) 3.18 (d, 2 H) 3.36 (dt, 1 H) 3.66 (dt, 1 H) 4.13 (m, 1 H) 4.50 (dd, 1 H) 7.23 (d, 1 H) 7.62 (dd, 1 H) 1.11 (d, 1 H) 8.63 (dd, 1 H) 8.94 (dd, 1 H)	LCMS (ESI+) calcd for C ₂₀ H ₂₅ N ₅ O ₂ (M+H+): 368.20; found: 368.2
ER-899742	 C ₂₀ H ₂₃ ClFN ₅ O ₂	419.89	0.0059	> 10.0	rel-(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((3S,4R)-4-fluoropyrrolidin-3-yl)-6-methylmorpholine-2-carboxamide hydrochloride 1H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.36 (d, 4 H) 2.59 - 2.80 (m, 1 H) 2.86 (t, 1 H) 3.35 (m, 1 H) 3.38 - 3.48 (m, 1 H) 3.48 - 3.65 (m, 1 H) 3.65 - 3.86 (m, 5 H) 4.16 - 4.21 (m, 1 H) 4.58 (dd, 1 H) 5.23 (t, 1 H) 5.37 (t, 1 H) 7.29 (d, 1 H) 7.68 (dd, 1 H) 8.11 (d, 1 H) 8.17 (d, 1 H) 8.69 (dd, 1 H) 9.01 (dd, 1 H)	LCMS (ESI+) calcd for C ₂₀ H ₂₃ FN ₅ O ₂ (M+H+): 384.15; found: 384.03
ER-899745	 C ₂₀ H ₂₃ ClFN ₅ O ₂	419.89	0.0081	> 10.0	rel-(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-((3R,4S)-4-fluoropyrrolidin-3-yl)-6-methylmorpholine-2-carboxamide hydrochloride 1H NMR (400 MHz, METHANOL-d ₄) δ ppm 1.35 (d, 4 H) 2.75 (t, 1 H) 2.86 (t, 1 H) 3.43 (d, 2 H) 3.59 (t, 1 H) 3.67 - 3.79 (m, 6 H) 4.05 - 4.29 (m, 1 H) 4.59 (dd, 1 H) 7.29 (d, 1 H) 7.70 (dd, 1 H) 8.12 (d, 1 H) 8.18 (d, 1 H) 8.73 (d, 1 H) 9.01 (dd, 1 H)	LCMS (ESI+) calcd for C ₂₀ H ₂₃ FN ₅ O ₂ (M+H+): 384.15; found: 384.06

FIG. 6GGGG

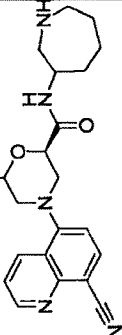
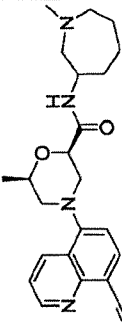
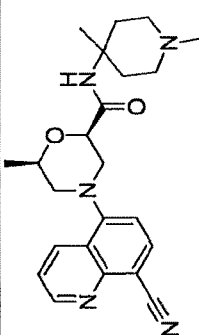
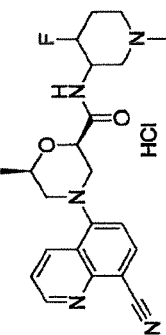
ER-899819	 <chem>CN1CCN(C1C(=O)N2CCN(C2)c3ccc4c(c3)ncn4C#N)C5=CC=CC=C5</chem> HCl $C_{22}H_{28}ClN_5O_2$	429.95	0.0053	7.490	(2R,6R)-N-(azepan-3-yl)-4-(8-cyanoquinolin-5-yl)-6-methylmorpholine-2-carboxamide hydrochloride		
ER-899820	 <chem>CN1CCN(C1C(=O)N2CCN(C2)c3ccc4c(c3)ncn4C#N)C5=CC=CC=C5</chem> HCl $C_{22}H_{28}ClN_5O_2$	443.98	0.0083	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-6-methyl-N-(1-methylazepan-3-yl)morpholine-2-carboxamide hydrochloride		
ER-899835	 <chem>CN1CCN(C1C(=O)N2CCN(C2)c3ccc4c(c3)ncn4C#N)C5=CC=CC=C5</chem> HCl $C_{23}H_{30}ClN_5O_2$	407.52	0.0661	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(1,4-dimethylpiperidin-4-yl)-6-methylmorpholine-2-carboxamide	^1H NMR (400 MHz, CHLOROFORM- d) δ ppm 0.84 - 0.91 (m, 1 H) 1.21 - 1.28 (m, 5 H) 1.34 (d, $J=6.22$ Hz, 3 H) 1.42 (s, 3 H) 1.67 - 1.90 (m, 4 H) 2.05 - 2.17 (m, 2 H) 2.21 (d, $J=8.09$ Hz, 1 H) 2.31 (s, 3 H) 2.54 - 2.65 (m, 1 H) 2.66 - 2.78 (m, 2 H) 3.30 (d, $J=11.90$ Hz, 1 H) 3.81 (d, $J=12.09$ Hz, 1 H) 4.03 - 4.16 (m, 1 H) 4.34 (dd, $J=10.72, 2.52$ Hz, 1 H) 4.85 - 4.93 (m, 1 H) 6.42 (s, 1 H) 7.09 (d, $J=7.97$ Hz, 1 H) 7.52 (dd, $J=8.55, 4.20$ Hz, 1 H) 8.04 (d, $J=7.93$ Hz, 1 H) 8.47 (dd, $J=8.54, 1.37$ Hz, 1 H) 9.07 (dd, $J=4.04, 1.41$ Hz, 1 H)	LCMS (ESI+) calcd for $C_{23}H_{29}N_5O_2$ (M+H+): 408.24; found: 408
ER-899836	 <chem>CN1CCN(C1C(=O)N2CCN(C2)c3ccc4c(c3)ncn4C#N)C5=CC=CC=C5</chem> HCl $C_{23}H_{29}FN_5O_2$	447.93	0.3190	> 10.0	(2R,6R)-4-(8-cyanoquinolin-5-yl)-N-(4-fluoro-1-methylpiperidin-3-yl)-6-methylmorpholine-2-carboxamide hydrochloride	^1H NMR (400 MHz, METHANOL- d_4) δ ppm 1.34 (d, $J=6.41$ Hz, 3 H) 1.92 - 2.14 (m, 2 H) 2.22 - 2.43 (m, 5 H) 2.58 (br, 1 H) 2.64 - 2.89 (m, 3 H) 3.40 (d, $J=12.07$ Hz, 1 H) 3.70 (dd, $J=11.96, 2.14$ Hz, 1 H) 4.09 - 4.28 (m, 2 H) 4.53 (ddd, $J=10.74, 3.90, 2.67$ Hz, 1 H) 4.65 - 4.86 (m, 1 H) 7.28 (d, $J=8.12$ Hz, 1 H) 7.66 (dd, $J=8.55, 4.27$ Hz, 1 H) 8.16 (d, $J=8.12$ Hz, 1 H) 8.68 (dd, $J=8.65, 1.60$ Hz, 1 H) 8.99 (dd, $J=4.27, 1.71$ Hz, 1 H)	LCMS (ESI+) calcd for $C_{22}H_{26}FN_5O_2$ (M+H+): 412.18; found: 412.23

FIG. 7(A)

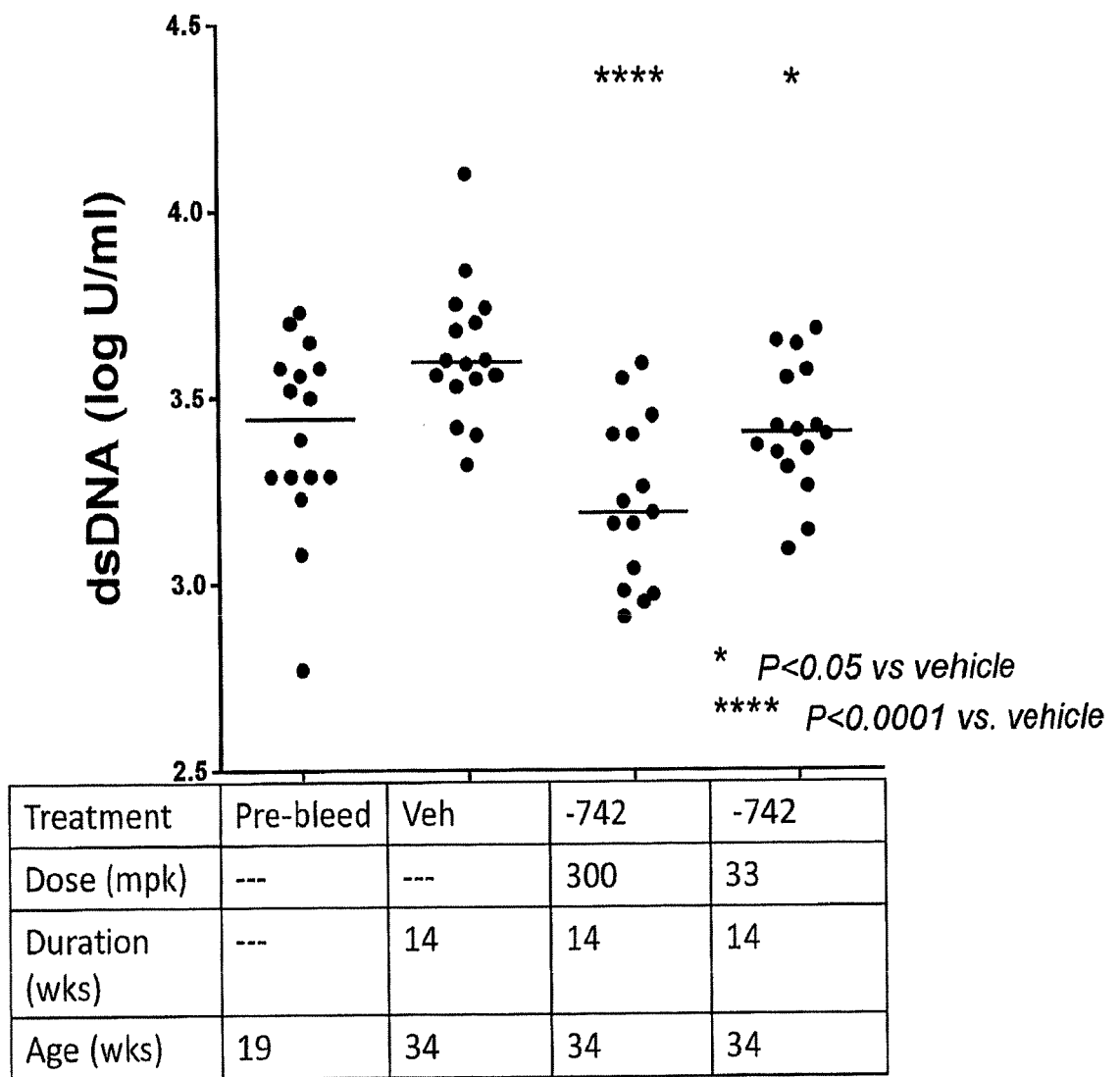


FIG. 7(B)

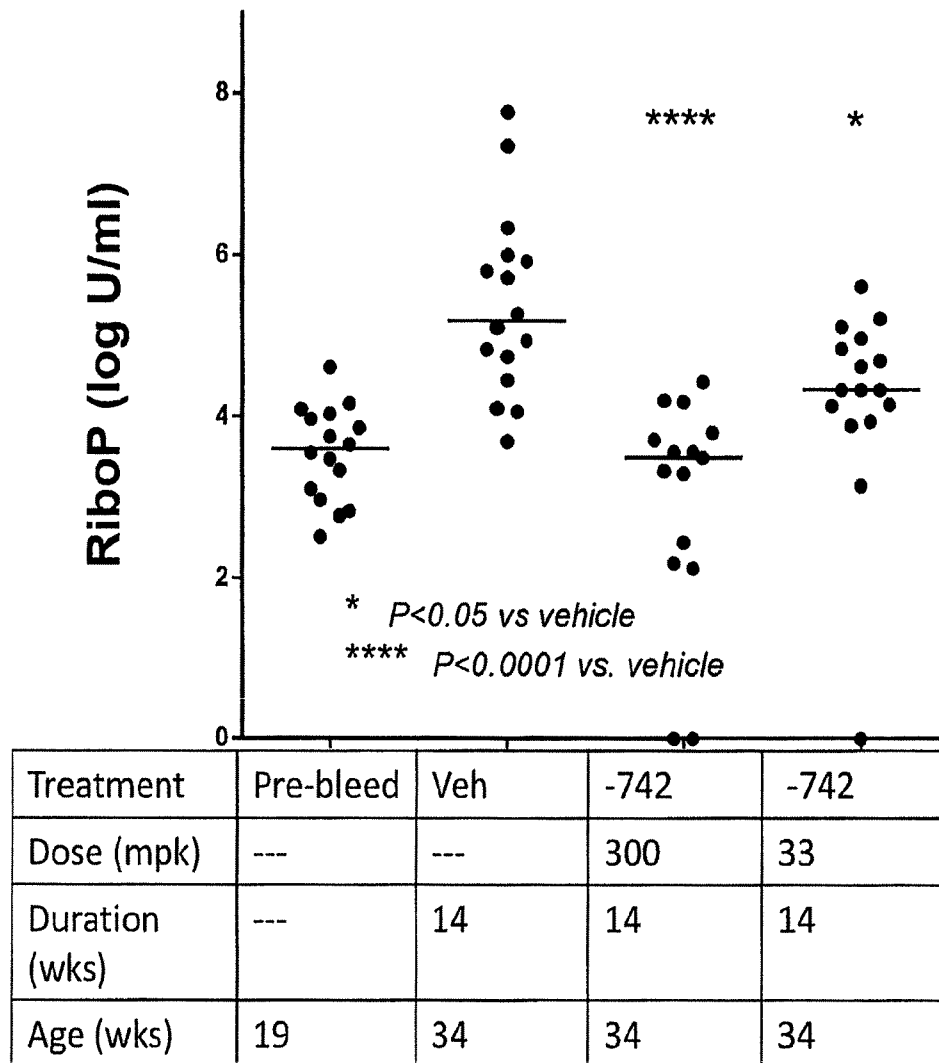


FIG. 7(C)

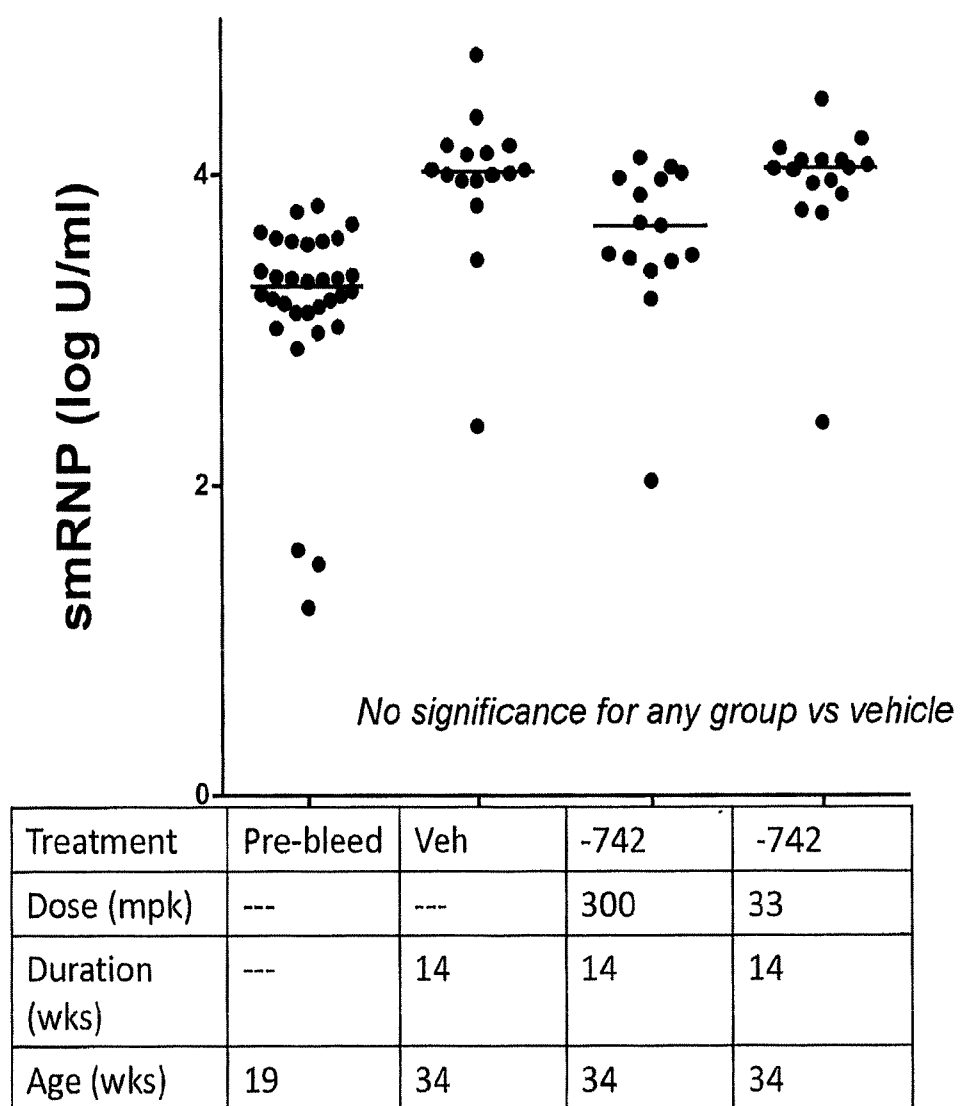


FIG. 7(D)

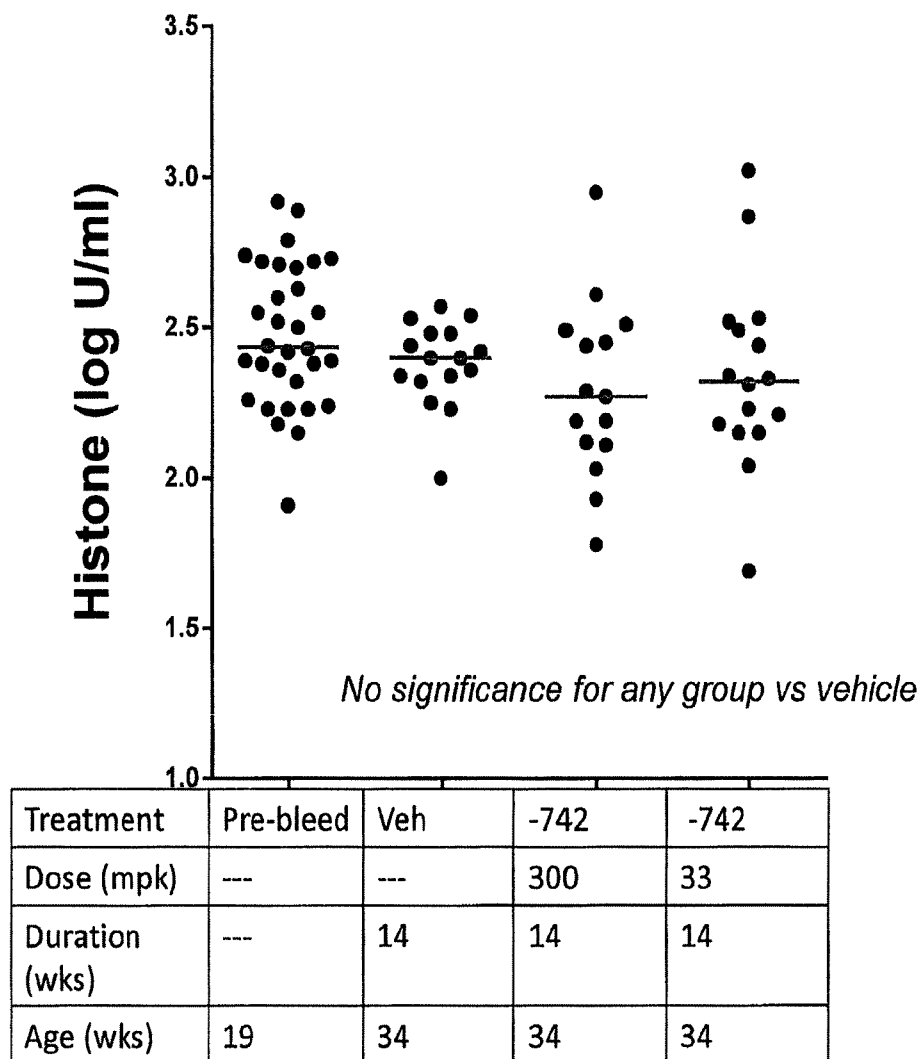


FIG. 7(E)

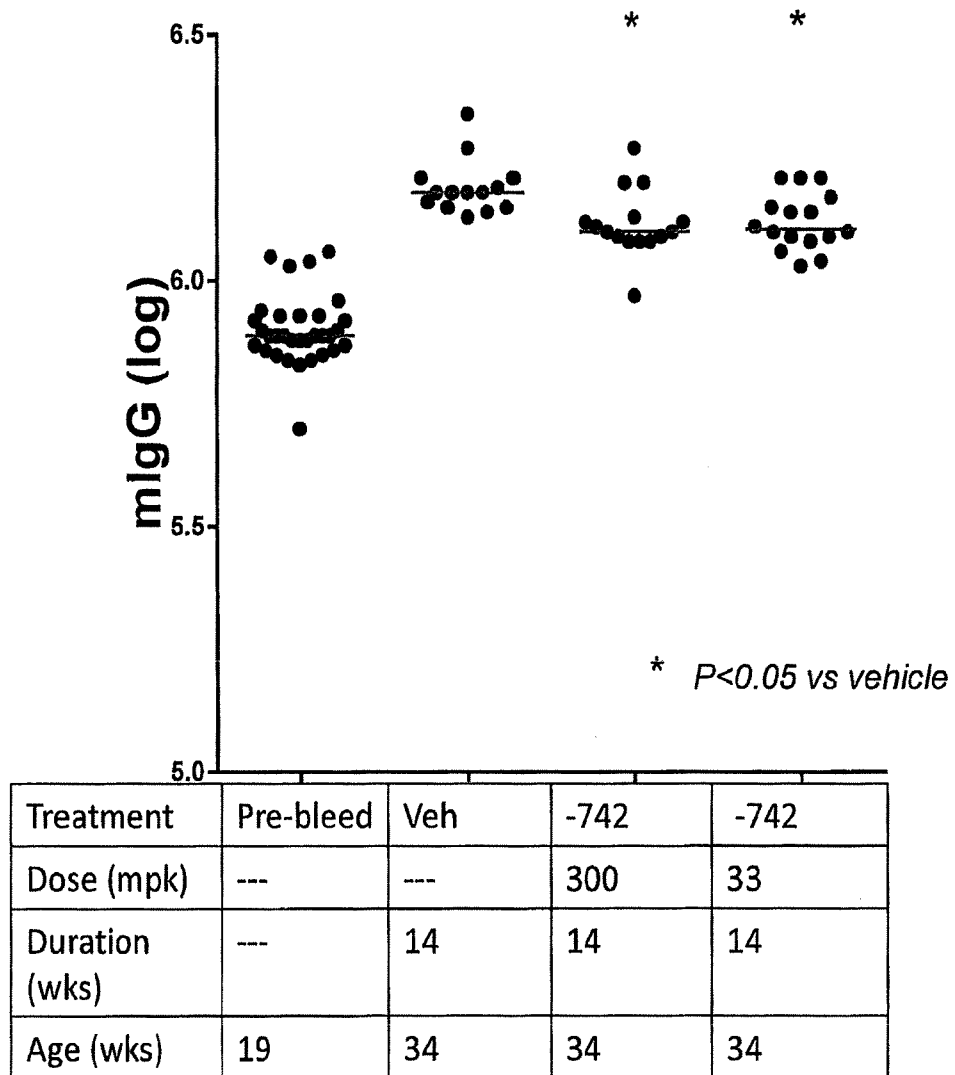


FIG. 7(F)

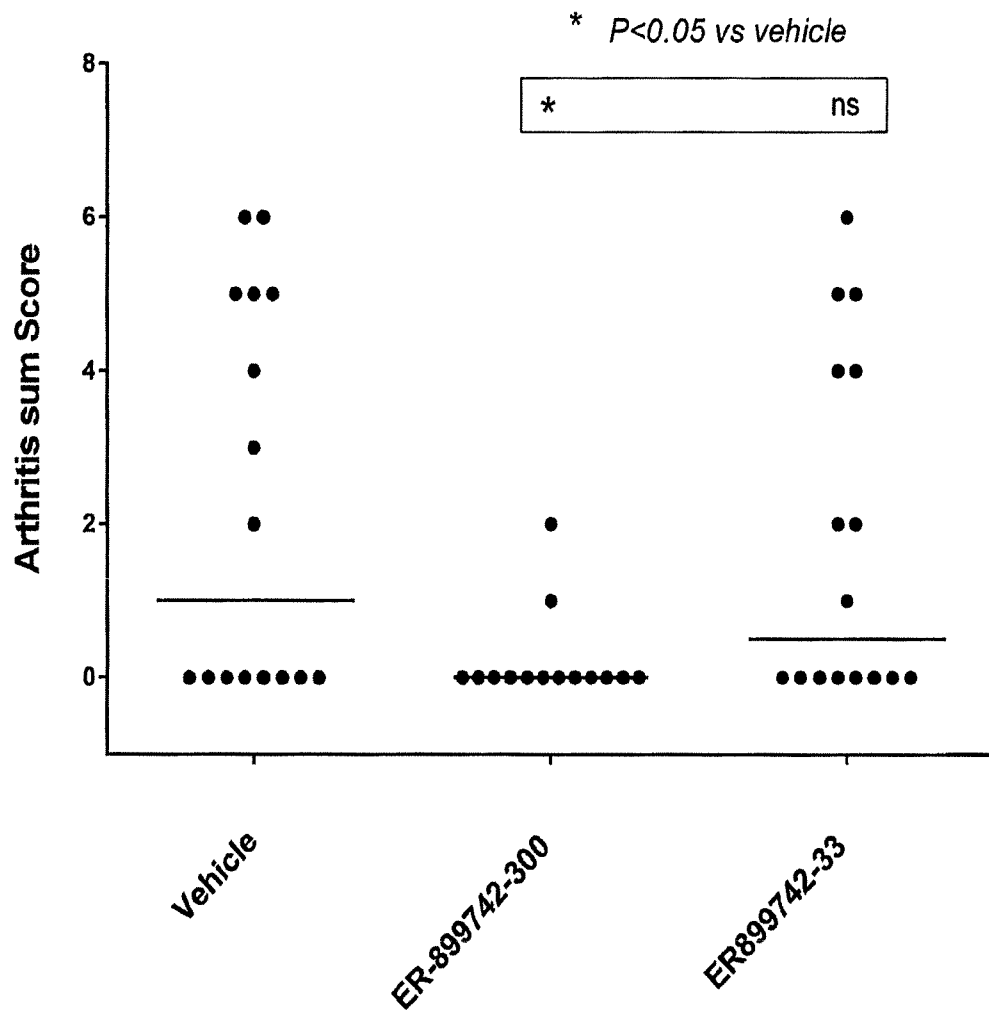
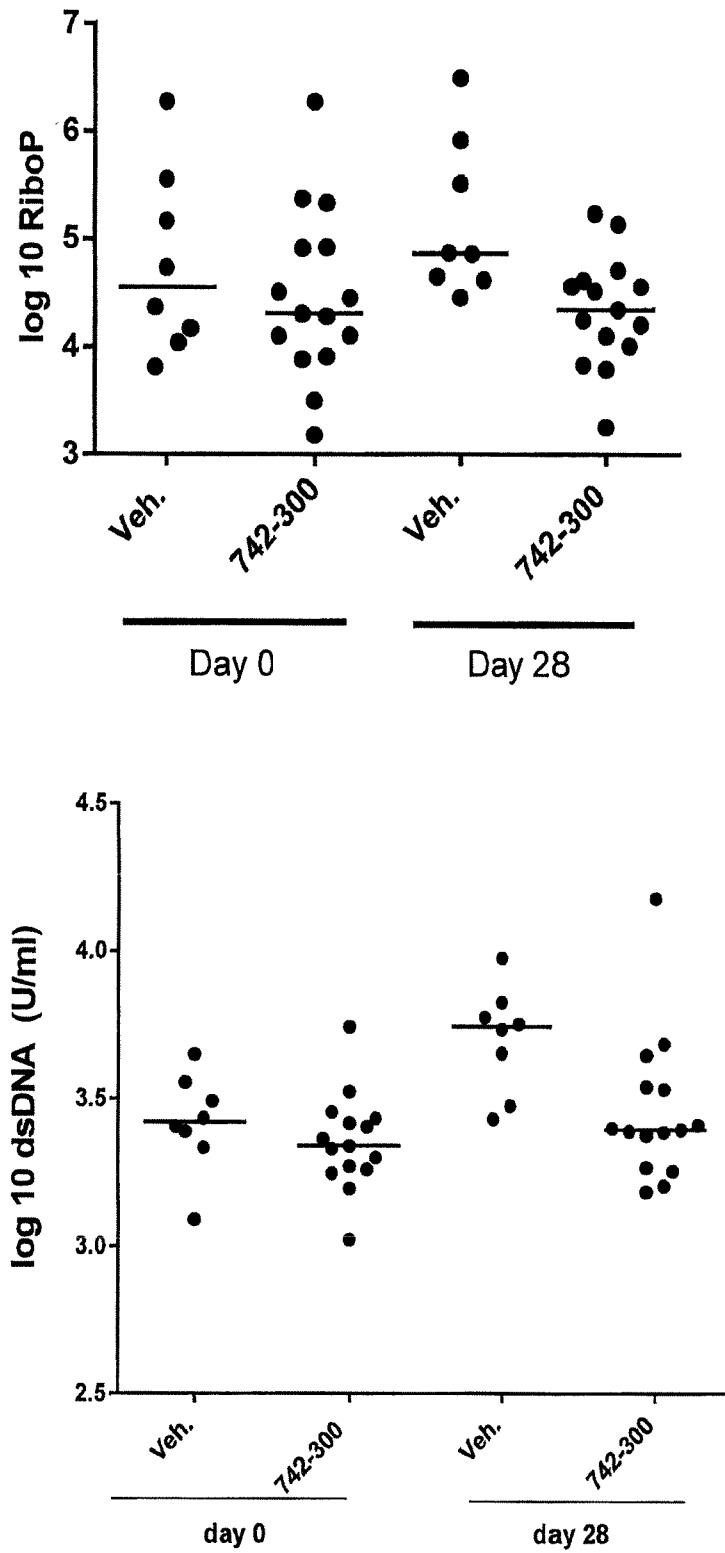


FIG. 7G

Gene Number	Gene Name
1	lrf7*
2	lsg15*
3	Fcgr1
4	Usp18*
5	Oasl2*
6	Cmpk2
7	Herc6
8	Ifit1*
9	Oas3
10	Ifi202b
11	Ifit3
12	Ifi27l2a
13	Ddx60
14	Ifi44
15	Xaf1
16	Mx1
17	Ifi204
18	Elane
19	Fpr1
20	Mmp8
21	Ccl2
22	Ms4a6c
23	Cxcl10
24	Ccr2
24 genes were significantly upregulated between Pristane + Vehicle vs. uninduced PBS control (P.adj "FDR" <0.05, at least 1.5 Fold Change)	
* Significantly reduced by 300 mg/kg ER899742 vs. vehicle-treated pristane-induced mice (5 genes) (P.adj "FDR"<0.05, at least 1.5 fold change)	

FIG. 8



No statistically significant change in titer seen in dosed groups over time.

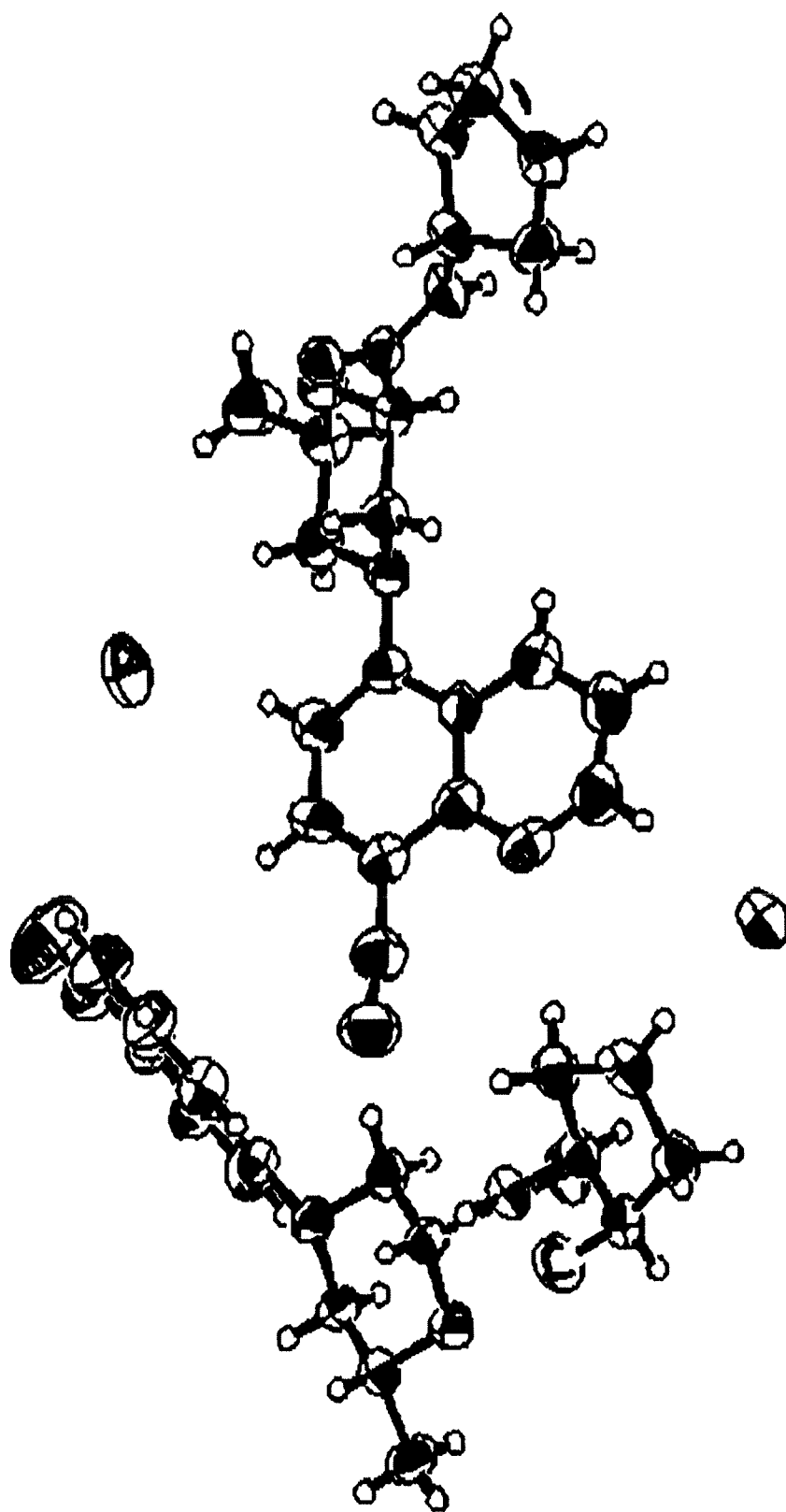


FIG. 9 ORTEP plot of the crystal structure of ER-899742-HCl.