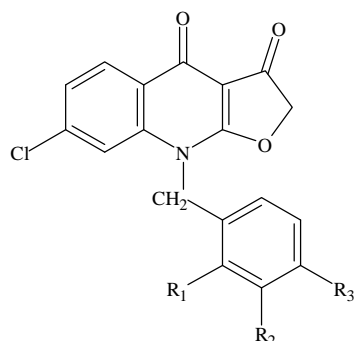


Table 17 Effects on heart rate and contraction in rat right atria, ventricles and left atria of compounds **83,84** and **86-97**



No.	R ₁	R ₂	R ₃	Conc. (μ M)	RA		RV	LA
					HR (% of control)	Tension %	Tension %	Tension %
83	H	H	H	0	220			
				10	200(91)	117	100	100
				30	180(82)	167	100	125
				100	160(73)	233	112.5	200
84	CH ₃	H	H	0	180			
				10	190(105.5)	100	120	100
				30	180(100)	200	160	150
				100	stop	stop	200	275
86	H	H	CH ₃	0	262.5			
				10	232.5(87)	117	108	125
				30	187.5(71)	167	117	150
				100	stop	stop	133	163
87	H	OCH ₃	H	0	172.5			
				10	172.5(100)	133	129	100
				30	67.5(39)	433	171	200
				100	75(43)	600	200	200
88	H	H	OCH ₃	0	225			
				10	210(93)	120	125	100
				30	195(87)	200	150	167
				100	125(73)	350	250	200
89	F	H	H	0	232.5			
				10	217.5(93.5)	120	100	120
				30	180(77.4)	160	100	240
				100	stop	stop	175	320
90	H	F	H	0	210			
				10	202.5(96.4)	120	85.7	125
				30	195(92.8)	120	85.7	125
				100	165(78.5)	160	114	300
91	H	H	F	0	280			
				10	240(85.7)	120	100	100
				30	200(71.4)	200	133	114
				100	150(53.5)	260	200	114

Table 17 (Continued)

No.	R ₁	R ₂	R ₃	Conc. (μ M)	RA	RV		LA
					HR (% of control)	Tension %	Tension %	Tension %
92	Cl	H	H	0	255			
				10	232.5(91)	125	100	117
				30	195(76.4)	200	167	133
				100	172.5(67.6)	225	200	150
93	H	Cl	H	0	250			
				10	220(88)	100	100	100
				30	180(72)	100	125	100
				100	stop	stop	125	100
94	H	H	Cl	0	255			
				10	240(94.1)	133	91	100
				30	225(88)	244	91	171
				100	172.5(67.6)	311	91	314
95	NO ₂	H	H	0	210			
				10	210(100)	100	87.5	111
				30	210(100)	133	100	144
				100	187.5(89)	267	100	267
96	H	NO ₂	H	0	240			
				10	230(96)	90	100	117
				30	220(92)	125	100	133
				100	210(87.5)	125	100	133
97	H	H	NO ₂	0	247.5			
				10	195(79)	175	117	117
				30	150(61)	225	117	133
				100	142.5(57.5)	275	133	183

“stop”代表在高濃度(100 μ M)時，會抑制右心房自發性節律，代表這些化合物毒性大