

Table 46 The inhibitory effects of compounds **83-97** on the neutrophil superoxide formation (*in vitro*)

Animal: Rat Inducer : PMA 3 nM

No.	Conc. (μ M)	Superoxide Formation		N
		nmol/10 ⁶ cells/30mins	(% inh.)	
Control		4.04 ± 0.28	--	3
83	10	3.54 ± 0.35	11.9 ± 7.1	3
	30	3.26 ± 0.22	18.4 ± 7.4	3
84	10	3.50 ± 0.31	11.9 ± 12.1	3
	30	3.75 ± 0.32	6.9 ± 7.1	3
85	10	3.56 ± 0.12	10.9 ± 5.8	3
	30	4.00 ± 0.11	-5.7 ± 4.2	3
86	10	3.62 ± 0.05	9.7 ± 5.2	3
	30	4.32 ± 0.41	-7.5 ± 2.9	3
87	10	3.18 ± 0.27	20.8 ± 6.0	3
	30	3.24 ± 0.24	17.8 ± 12.1	3
88	10	3.15 ± 0.25	21.6 ± 5.4	3
	30	3.14 ± 0.36	22.6 ± 4.1	3
89	10	3.05 ± 0.28	24.7 ± 1.8	3
	30	3.47 ± 0.32	13.9 ± 6.2	3
90	10	3.29 ± 0.20	18.2 ± 3.5	3
	30	4.00 ± 0.67	2.2 ± 10.2	3
91	10	3.13 ± 0.34	22.1 ± 8.7	3
	30	3.73 ± 0.16	7.2 ± 2.9	3
92	10	3.21 ± 0.29	20.2 ± 6.8	3
	30	2.91 ± 0.41	27.8 ± 9.0	3
93	10	4.09 ± 0.21	-1.6 ± 2.5	3
	30	4.47 ± 0.32	-10.9 ± 4.0	3
94	10	4.25 ± 0.15	-5.7 ± 4.3	3
	30	4.74 ± 0.07	-18.3 ± 6.6	3
95	10	2.93 ± 0.27	27.5 ± 5.4	3
	30	2.87 ± 0.28	28.7 ± 6.3	3
96	10	2.95 ± 0.40	27.5 ± 5.5	3
	30	3.43 ± 0.11	14.3 ± 5.0	3
97	10	2.52 ± 0.16*	37.3 ± 2.8	3
	30	2.52 ± 0.42*	38.4 ± 7.5	3
TEP	1	3.31 ± 0.23	16.6 ± 10.1	3
	3	2.07 ± 0.43**	49.5 ± 7.4	3
	10	0.51 ± 0.19**	87.1 ± 4.9	3
IC ₅₀ (μ M)		4.5 ± 0.3		

N=3 ; *P<0.05, **P<0.01 ; TEP: Trifluoperazine(positive control)

Table 48 The inhibitory effects of compounds **139-153** on the neutrophil superoxide formation (*in vitro*)

Animal: Rat Inducer : PMA 3 nM

Drug	Conc. (μ M)	Superoxide Formation		N
		nmol/10 ⁶ cells/30mins	(%inh.)	
Control		2.87 \pm 0.02	--	3
139	10	2.08 \pm 0.24	28.3 \pm 8.0	3
	30	1.86 \pm 0.22*	35.5 \pm 7.5	3
140	10	2.35 \pm 0.20	18.7 \pm 7.4	3
	30	2.90 \pm 0.07	0.01 \pm 1.9	3
141	10	2.33 \pm 0.23	18.7 \pm 8.6	3
	30	2.97 \pm 0.11	-3.2 \pm 3.4	3
142	10	2.47 \pm 0.30	14.1 \pm 9.9	3
	30	2.86 \pm 0.27	0.4 \pm 8.5	3
143	10	2.47 \pm 0.12	13.9 \pm 4.9	3
	30	2.06 \pm 0.19	28.2 \pm 6.3	3
144	10	2.30 \pm 0.33	19.5 \pm 12.0	3
	30	2.03 \pm 0.12	29.1 \pm 4.8	3
145	10	2.25 \pm 0.09	21.6 \pm 2.0	3
	30	2.12 \pm 0.29	26.7 \pm 9.7	3
146	10	2.48 \pm 0.25	13.6 \pm 9.1	3
	30	2.06 \pm 0.14	28.3 \pm 4.9	3
147	10	1.63 \pm 0.20*	43.7 \pm 7.2	3
	30	1.72 \pm 0.38*	40.3 \pm 12.6	3
148	10	2.40 \pm 0.13	16.4 \pm 4.7	3
	30	2.76 \pm 0.04	3.7 \pm 1.8	3
149	10	3.40 \pm 0.13	-18.6 \pm 5.5	3
	30	3.30 \pm 0.15	-15.1 \pm 6.2	3
150	10	2.24 \pm 0.34	21.8 \pm 12.1	3
	30	2.97 \pm 0.14	-3.5 \pm 4.7	3
151	10	2.08 \pm 0.21	27.4 \pm 7.3	3
	30	2.30 \pm 0.26	19.7 \pm 9.8	3
152	10	2.37 \pm 0.33	17.4 \pm 11.5	3
	30	2.33 \pm 0.11	18.7 \pm 4.6	3
153	10	1.83 \pm 0.09*	36.1 \pm 3.1	3
	30	3.58 \pm 0.22	-24.6 \pm 8.3	3
TFP	1	2.34 \pm 0.23	16.6 \pm 10.1	3
	3	1.46 \pm 0.43*	49.5 \pm 7.4	3
	10	0.35 \pm 0.19**	87.1 \pm 4.9	3
IC ₅₀			4.5 \pm 0.3	

N=3 ; *P<0.05, ** P<0.01 ; TFP:Trifluoperazine (positive control)

Table 47 The inhibitory effects of compounds **109-123** on the neutrophil superoxide formation (*in vitro*)

Animal: Rat		Inducer : PMA 3 nM		
No.	conc. (µ M)	Superoxide Formation		N
		Nmol/10 ⁶ cells/30mins	(% inh.)	
Control		4.72 ± 0.31	--	3
109	10	4.06 ± 0.24	12.4 ± 10.9	3
	30	4.10 ± 0.30	12.9 ± 2.4	3
110	10	4.14 ± 0.16	11.9 ± 2.9	3
	30	4.56 ± 0.26	3.2 ± 2.4	3
111	10	4.43 ± 0.38	6.4 ± 3.4	3
	30	4.18 ± 0.32	11.5 ± 2.1	3
112	10	4.65 ± 0.37	1.7 ± 1.5	3
	30	4.83 ± 0.16	-2.9 ± 5.1	3
113	10	4.15 ± 0.27	12.1 ± 0.7	3
	30	4.39 ± 0.26	6.8 ± 2.8	3
114	10	4.52 ± 0.37	4.4 ± 2.9	3
	30	4.57 ± 0.21	2.7 ± 3.2	3
115	10	3.85 ± 0.41	18.1 ± 8.2	3
	30	4.00 ± 0.43	14.9 ± 8.2	3
116	10	3.94 ± 0.18	16.3 ± 1.9	3
	30	4.26 ± 0.31	9.8 ± 1.2	3
117	10	4.02 ± 0.02	14.8 ± 0.9	3
	30	4.08 ± 0.22	13.7 ± 3.3	3
118	10	3.29 ± 0.25**	30.1 ± 6.3	3
	30	4.14 ± 0.07	12.4 ± 0.3	3
119	10	4.26 ± 0.15	9.8 ± 1.9	3
	30	4.48 ± 0.25	5.4 ± 3.8	3
120	10	4.24 ± 0.34	10.4 ± 5.7	3
	30	4.80 ± 0.17	-1.5 ± 2.2	3
121	10	4.04 ± 0.19	14.5 ± 2.7	3
	30	3.56 ± 0.19**	24.7 ± 2.8	3
122	10	4.17 ± 0.19	11.7 ± 3.8	3
	30	3.38 ± 0.17**	28.3 ± 4.6	3
123	10	4.03 ± 0.17	14.7 ± 4.3	3
	30	3.64 ± 0.27**	23.0 ± 4.5	3
TEP	3	3.15 ± 0.19**	32.5 ± 8.6	3
	10	1.16 ± 0.15**	74.9 ± 5.7	3
	30	0.12 ± 0.03**	97.6 ± 0.9	3
IC ₅₀			6.8 ± 2.3	

N=3 ; *P<0.05, ** P<0.01 ; TFP:Trifluoperazine (positive control)