

Table38 The inhibitory effects of compounds **68-79**on the neutrophil superoxide formation (*in vitro*)

Animal: Rat Inducer: fMLP 1 μ M/5 μ g/ml cytochalasin B

Compound	Conc. (μM)	Superoxide Formation		
		nmol/10 ⁶ cells/30mins	(%inh)	N
Control		1.14 ± 0.10	--	3
68	30	0.98 ± 0.15	5.3 ± 4.2	3
	100	0.93 ± 0.06	8.4 ± 4.8	3
69	30	0.85 ± 0.11	17.7 ± 1.6	3
	100	0.94 ± 0.08	7.5 ± 2.3	3
70	30	0.80 ± 0.14 *	23.3 ± 5.5	3
	100	0.76 ± 0.09 *	25.5 ± 2.5	3
71	30	0.67 ± 0.20 **	36.7 ± 15.6	3
	100	0.80 ± 0.07 *	21.9 ± 2.0	3
72	30	0.65 ± 0.12 **	37.6 ± 4.9	3
	100	0.93 ± 0.18	10.3 ± 8.3	3
73	30	0.68 ± 0.06 **	37.1 ± 3.7	3
	100	0.66 ± 0.11 **	36.1 ± 5.3	3
74	30	1.69 ± 0.16 **	-36.3 ± 9.1	3
	100	2.18 ± 0.38 **	-70.8 ± 8.8	3
75	30	0.82 ± 0.05 **	33.3 ± 5.1	3
	100	0.85 ± 0.09 **	31.7 ± 5.7	3
76	30	0.86 ± 0.13 **	31.7 ± 2.0	3
	100	0.86 ± 0.14 **	31.9 ± 3.4	3
77	30	1.08 ± 0.18	14.6 ± 5.1	3
	100	1.32 ± 0.19	-5.5 ± 7.1	3
78	30	0.89 ± 0.19 **	30.3 ± 8.4	3
	100	0.86 ± 0.14 **	31.7 ± 3.5	3
79	30	0.76 ± 0.08 **	37.8 ± 7.1	3
	100	0.80 ± 0.09 **	34.9 ± 9.3	3
TFP	3	0.95 ± 0.11	11.0 ± 2.5	3
	10	0.59 ± 0.09 **	44.8 ± 3.9	3
	30	0.07 ± 0.03 **	92.6 ± 3.8	3
	IC ₅₀	14.6 ± 1.0		

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

Table 39 The inhibitory effects of compounds **80-82, 124-138** on the neutrophil superoxide formation (*in vitro*)

Animal: Rat Inducer: fMLP 0.3 μ M/5 μ g/ml cytochalasin B

Compound	(μ M)	Superoxide Formation		
		nmol/10 ⁶ cells/30mins	(%inh.)	N
Control		1.02 \pm 0.10	--	3
80	10	1.06 \pm 0.09	-3.9 \pm 3.1	3
	30	1.31 \pm 0.13	-29.4 \pm 2.1	3
81	10	0.82 \pm 0.13	20.6 \pm 7.4	3
	30	0.66 \pm 0.05 *	33.9 \pm 6.3	3
82	10	0.83 \pm 0.16	20.4 \pm 9.9	3
	30	0.81 \pm 0.08	26.6 \pm 8.9	3
124	10	0.86 \pm 0.06	8.6 \pm 8.5	3
	30	0.86 \pm 0.16	17.4 \pm 9.3	3
125	10	0.73 \pm 0.07	29.2 \pm 1.2	3
	30	0.63 \pm 0.11	45.1 \pm 10.4	3
126	10	0.88 \pm 0.10	13.3 \pm 7.1	3
	30	0.79 \pm 0.13	24.1 \pm 7.5	3
127	10	0.77 \pm 0.06	23.1 \pm 8.7	3
	30	1.36 \pm 0.19	-33.1 \pm 13.7	3
128	10	0.94 \pm 0.20	4.4 \pm 4.4	3
	30	0.61 \pm 0.13 **	42.1 \pm 9.0	3
129	10	0.95 \pm 0.12	8.3 \pm 6.7	3
	30	0.77 \pm 0.02	22.6 \pm 8.9	3
130	10	0.96 \pm 0.04	6.3 \pm 3.3	3
	30	0.82 \pm 0.10	18.9 \pm 11.7	3
131	10	0.89 \pm 0.06	12.6 \pm 5.4	3
	30	1.29 \pm 0.08	-26.7 \pm 8.0	3
132	10	0.97 \pm 0.11	5.3 \pm 9.4	3
	30	0.99 \pm 0.04	3.1 \pm 2.7	3
133	10	1.08 \pm 0.07	-5.5 \pm 5.8	3
	30	0.82 \pm 0.07	19.0 \pm 8.8	3
134	10	0.81 \pm 0.13	20.4 \pm 12.8	3
	30	0.78 \pm 0.06	24.1 \pm 6.7	3
135	10	1.02 \pm 0.07	-0.1 \pm 8.7	3
	30	0.88 \pm 0.09	14.5 \pm 8.1	3
136	10	0.76 \pm 0.08 *	26.3 \pm 7.4	3
	30	0.69 \pm 0.04 *	32.3 \pm 4.2	3
137	10	0.69 \pm 0.11 *	31.8 \pm 12.6	3
	30	0.56 \pm 0.01 **	42.8 \pm 0.4	3
138	10	0.90 \pm 0.06	11.6 \pm 7.4	3
	30	0.72 \pm 0.04 *	31.2 \pm 3.9	3
TFP	3	0.78 \pm 0.11	11.0 \pm 2.5	3
	10	0.49 \pm 0.09 **	44.8 \pm 3.9	3
	30	0.06 \pm 0.03 **	92.6 \pm 3.8	3
IC₅₀ (μ M)		14.6 \pm 1.0		

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