

Table 32 The inhibitory effects of compounds **68-79** on neutrophil degranulation (*in vitro*)

Animal: Rat		Inducer: fMLP 1 μ M/5 μ g/ml cytochalasin B			
Compound	Conc. (μ M)	Percent Release			
		-Glucuronidase (%inh.)	Lysozyme (%inh.)		
Control		27.2 \pm 0.5	--	42.5 \pm 2.9	--
68	30	22.1 \pm 0.4	18.8 \pm 2.5	35.3 \pm 3.9	17.4 \pm 4.6
	100	23.8 \pm 1.5	12.4 \pm 5.6	33.0 \pm 4.7	23.2 \pm 7.0
69	30	22.1 \pm 1.7	18.8 \pm 5.3	33.2 \pm 3.1	22.0 \pm 4.5
	100	22.6 \pm 1.3	17.2 \pm 3.5	32.5 \pm 3.5*	23.7 \pm 6.3
70	30	24.2 \pm 1.3	10.9 \pm 5.2	32.7 \pm 2.5*	23.1 \pm 0.9
	100	24.0 \pm 1.5	11.9 \pm 5.5	36.0 \pm 3.7	15.6 \pm 4.0
71	30	23.9 \pm 0.7	12.2 \pm 3.2	34.5 \pm 3.9	19.2 \pm 5.2
	100	23.4 \pm 0.4	13.9 \pm 2.7	32.4 \pm 3.7*	24.2 \pm 4.0
72	30	25.5 \pm 0.9	6.4 \pm 3.7	34.9 \pm 4.8	18.6 \pm 6.5
	100	25.3 \pm 0.3	7.2 \pm 0.9	33.6 \pm 3.2	21.3 \pm 2.2
73	30	22.7 \pm 0.6	16.8 \pm 1.0	29.4 \pm 2.3*	30.8 \pm 2.6
	100	19.9 \pm 0.1**	26.8 \pm 1.6	29.4 \pm 3.6*	31.1 \pm 5.6
74	30	30.7 \pm 0.1	-12.8 \pm 1.9	38.6 \pm 3.8	9.6 \pm 3.1
	100	25.9 \pm 0.6	4.8 \pm 3.2	33.3 \pm 3.6	22.2 \pm 3.5
75	30	23.3 \pm 2.1	14.5 \pm 6.2	34.8 \pm 2.5	18.2 \pm 2.7
	100	21.0 \pm 0.6	22.9 \pm 2.7	31.6 \pm 2.8*	25.8 \pm 1.6
76	30	24.5 \pm 0.4	10.0 \pm 6.6	33.3 \pm 3.9	22.1 \pm 4.1
	100	23.4 \pm 0.5	14.0 \pm 3.5	32.2 \pm 3.6*	24.7 \pm 4.0
77	10	21.6 \pm 1.2	20.6 \pm 4.9	30.8 \pm 2.8*	27.7 \pm 2.0
	30	17.7 \pm 0.2**	35.0 \pm 1.3	26.7 \pm 3.5**	37.6 \pm 5.6
	100	3.2 \pm 0.6**	88.1 \pm 2.1	2.2 \pm 1.7**	94.1 \pm 4.5
IC ₅₀			49.3 \pm 2.6		42.4 \pm 1.9
78	30	27.2 \pm 0.5	0.2 \pm 1.7	34.8 \pm 2.4	18.0 \pm 1.7
	100	22.9 \pm 1.2	16.2 \pm 2.9	31.8 \pm 1.7*	24.9 \pm 2.8
79	30	25.0 \pm 0.3	8.2 \pm 2.2	35.7 \pm 4.7	16.9 \pm 5.6
	100	22.9 \pm 1.0	16.0 \pm 3.3	28.5 \pm 2.1**	33.1 \pm 2.1
TFP	10	30.3 \pm 2.8	-10.6 \pm 12.5	45.3 \pm 2.7	-7.5 \pm 4.8
	20	15.4 \pm 1.8**	43.3 \pm 8.2	22.2 \pm 5.2**	48.4 \pm 4.5
	30	10.6 \pm 1.5**	60.9 \pm 7.0	10.8 \pm 4.7**	74.9 \pm 8.6
IC ₅₀ (μ M)			24.4 \pm 0.5		22.8 \pm 0.5

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

Table 33 The inhibitory effects of compounds **80-82, 124-138** on neutrophil degranulation (*in vitro*)

Animal: Rat		Inducer: fMLP 1 μ M/5 μ g/ml cytochalasin B			
		Percent Release			
Compound (μ M)		-----		-----	
		-Glucuronidase	(%inh.)	Lysozyme	(%inh.)
Control		47.5 \pm 1.6	--	62.2 \pm 5.2	--
80	10	40.1 \pm 0.3	15.3 \pm 2.6	50.7 \pm 6.8	18.8 \pm 6.6
	30	44.0 \pm 2.5	7.5 \pm 3.1	54.5 \pm 8.1	13.3 \pm 6.6
81	10	38.5 \pm 2.1	18.9 \pm 3.2	48.6 \pm 6.5	22.5 \pm 4.4
	30	34.3 \pm 1.9*	27.7 \pm 2.7	45.8 \pm 8.2	27.5 \pm 7.6
82	10	44.6 \pm 1.9	6.1 \pm 0.7	55.5 \pm 6.4	10.9 \pm 4.7
	30	33.5 \pm 2.3**	29.3 \pm 5.3	45.2 \pm 7.6	28.5 \pm 6.8
124	10	38.7 \pm 2.7	18.5 \pm 4.5	52.3 \pm 9.0	17.3 \pm 8.1
	30	36.8 \pm 0.7	22.1 \pm 4.2	49.4 \pm 8.5	21.6 \pm 8.1
125	10	37.2 \pm 4.7	22.2 \pm 7.6	48.6 \pm 8.0	23.0 \pm 6.9
	30	29.0 \pm 1.3**	9.0 \pm 1.0	43.3 \pm 8.8*	31.9 \pm 9.1
126	10	37.7 \pm 2.0	20.6 \pm 1.6	51.8 \pm 8.6	17.9 \pm 7.5
	30	34.4 \pm 0.9*	27.4 \pm 1.4	49.0 \pm 8.1	22.2 \pm 7.0
127	10	42.8 \pm 0.5	9.5 \pm 3.3	56.5 \pm 8.9	10.4 \pm 7.4
	30	37.2 \pm 0.8	21.6 \pm 1.5	53.6 \pm 9.4	15.2 \pm 8.6
128	10	37.2 \pm 1.0	21.6 \pm 1.7	51.1 \pm 8.1	18.8 \pm 6.8
	30	31.2 \pm 1.6**	33.9 \pm 5.6	45.8 \pm 10.1	28.1 \pm 11.0
129	10	36.1 \pm 3.0	23.9 \pm 5.7	50.2 \pm 7.2	20.2 \pm 5.3
	30	23.7 \pm 2.0**	49.7 \pm 5.9	40.7 \pm 9.6*	35.2 \pm 11.9
130	10	39.1 \pm 1.8	17.6 \pm 0.9	56.2 \pm 7.9	10.9 \pm 5.8
	30	43.8 \pm 2.5	7.8 \pm 2.2	55.5 \pm 8.7	11.9 \pm 7.2
131	10	38.6 \pm 3.5	18.5 \pm 6.9	58.1 \pm 7.5	7.4 \pm 4.7
	30	33.6 \pm 1.7*	28.8 \pm 4.8	53.8 \pm 10.3	15.3 \pm 10.4
132	10	36.6 \pm 1.7	22.9 \pm 3.0	55.3 \pm 10.3	12.8 \pm 10.2
	30	33.7 \pm 1.9**	29.1 \pm 1.9	52.3 \pm 7.0	16.8 \pm 5.0
133	3	30.8 \pm 0.6**	34.8 \pm 3.3	54.4 \pm 3.2	12.6 \pm 4.8
	10	29.6 \pm 1.4**	37.7 \pm 5.8	52.6 \pm 3.2	15.0 \pm 4.7
	30	20.1 \pm 0.7**	57.7 \pm 0.4	50.5 \pm 2.8	18.4 \pm 4.1
IC ₅₀		20.5 \pm 2.2			
134	10	39.9 \pm 1.3	14.9 \pm 8.5	56.4 \pm 3.3	8.9 \pm 4.6
	30	25.6 \pm 1.8**	45.3 \pm 8.6	47.3 \pm 4.6	23.8 \pm 7.0
135	10	37.8 \pm 2.2	20.4 \pm 2.8	52.3 \pm 5.1	15.9 \pm 3.6
	30	35.9 \pm 1.1*	24.4 \pm 1.6	53.8 \pm 4.5	13.5 \pm 1.7
136	10	34.8 \pm 2.6*	26.8 \pm 3.5	55.5 \pm 5.2	10.9 \pm 1.1
	30	31.6 \pm 1.8**	33.1 \pm 5.3	48.5 \pm 6.5	22.5 \pm 6.0
137	10	35.1 \pm 0.8*	25.9 \pm 3.9	54.2 \pm 6.5	13.1 \pm 5.8
	30	24.8 \pm 1.2**	47.7 \pm 3.3	47.4 \pm 5.9	24.0 \pm 5.1
138	10	35.8 \pm 1.1*	24.3 \pm 3.8	50.9 \pm 6.8	17.8 \pm 8.7
	30	33.6 \pm 2.0*	28.7 \pm 6.8	51.0 \pm 6.6	18.3 \pm 6.0
TFP	10	52.6 \pm 2.8	-10.9 \pm 12.5	66.2 \pm 2.7	-7.5 \pm 4.8
	20	26.7 \pm 1.8**	43.6 \pm 8.2	32.4 \pm 5.2**	48.4 \pm 4.5
	30	18.2 \pm 1.5**	60.9 \pm 7.0	15.8 \pm 4.7**	74.9 \pm 8.6
IC ₅₀		24.4 \pm 0.5		22.8 \pm 0.5	

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