

Table 54 The inhibitory effects of compounds **68-79** on accumulation of nitrite in medium (*in vitro*)

Animal: RAW N9 cells(<i>in vitro</i>)		Inducer: LPS 10µg/ml			
compound	Conc.	Nitrite accumulation			
	(µ M)	µM	(%inh.)	N	
Control		23.9 ± 0.2	--	4	
68	3	20.2 ± 0.5 **	15.6 ± 2.2	4	
	10	15.9 ± 0.3 **	33.7 ± 1.6	4	
	30	9.1 ± 0.3 **	62.0 ± 2.5	4	
	IC ₅₀		22.1 ± 1.1		
69	3	17.1 ± 0.5 **	28.5 ± 2.2	4	
	10	11.8 ± 0.9 **	50.4 ± 3.8	4	
	30	3.2 ± 0.4 **	86.5 ± 1.8	4	
	IC ₅₀		11.9 ± 0.7		
70	3	18.1 ± 0.7 **	24.1 ± 3.0	4	
	10	12.2 ± 0.5 **	49.2 ± 2.1	4	
	30	4.4 ± 0.1 **	81.6 ± 0.7	4	
	IC ₅₀		13.5 ± 0.6		
71	3	16.7 ± 0.3 **	30.0 ± 1.5	4	
	10	11.5 ± 1.0 **	51.9 ± 4.3	4	
	30	7.1 ± 0.4 **	70.4 ± 1.9	4	
	IC ₅₀		14.0 ± 0.9		
72	3	20.2 ± 0.6 **	15.6 ± 2.7	4	
	10	13.5 ± 0.3 **	43.6 ± 1.3	4	
	30	5.3 ± 0.4 **	77.9 ± 1.7	4	
	IC ₅₀		16.1 ± 0.5		
73	3	20.6 ± 0.5 **	13.7 ± 2.1	4	
	10	15.1 ± 0.4 **	36.7 ± 2.0	4	
	30	9.1 ± 0.1 **	61.8 ± 0.7	4	
	IC ₅₀		21.4 ± 0.7		
74	3	20.5 ± 0.6 **	14.2 ± 2.6	4	
	10	15.1 ± 0.3 **	36.7 ± 1.5	4	
	75	30	19.3 ± 0.6 **	19.2 ± 2.5	4
		(10)	11.8 ± 0.1 **	50.8 ± 0.6	4
	(30)	9.0 ± 0.3 **	62.2 ± 1.2	4	
76	3	20.8 ± 1.0 **	13.2 ± 4.4	4	
	10	12.6 ± 0.6 **	47.4 ± 2.6	4	
	30	3.9 ± 0.1 **	83.6 ± 0.5	4	
	IC ₅₀		15.0 ± 0.8		
77	3	16.9 ± 0.6 **	29.3 ± 2.7	4	
	10	14.6 ± 0.5 **	38.9 ± 2.4	4	
	30	9.2 ± 0.4 **	61.5 ± 1.9	4	
	IC ₅₀		19.8 ± 1.4		
78	3	20.4 ± 0.9 **	14.8 ± 3.8	4	
	10	15.5 ± 0.6 **	35.4 ± 2.6	4	
	30	9.6 ± 0.3 **	60.0 ± 1.3	4	
	IC ₅₀		22.4 ± 0.3		

Table 54 (continued)

compound	Conc. (μ M)	Nitrite accumulation		
		μ M	(%inh.)	N
79	3	19.8 \pm 0.6 **	17.2 \pm 2.5	4
	10	14.5 \pm 0.4 **	39.3 \pm 1.6	4
	30	9.7 \pm 0.3 **	59.6 \pm 1.3	4
IC ₅₀ (μ M)		21.4 \pm 0.9		
L-NAME	100	12.3 \pm 0.9 **	46.8 \pm 4.4	4
	300	7.3 \pm 0.5 **	68.6 \pm 2.1	4
	1000	2.0 \pm 0.5 **	91.4 \pm 2.1	4
IC ₅₀ (μ M)		0.3 \pm 0.01		

**P<0.01

Table 55 The inhibitory effects of compounds **80-82, 124-138** on accumulation of nitrite in medium (*in vitro*)

Animal: RAW N9 cells(<i>in vitro</i>)		Inducer : LPS 100ng/ml+100U/ml IFN- γ		
Compound	Conc. (μ M)	Nitrite accumulation		
		μ M	(%inh.)	N
Control		49.4 \pm 0.4	--	4
80	10	43.0 \pm 0.9	12.8 \pm 1.8	4
	30	44.5 \pm 1.7	9.8 \pm 3.5	4
81	10	42.8 \pm 1.7	13.4 \pm 3.4	4
	30	42.6 \pm 1.6	13.7 \pm 3.2	4
82	10	45.5 \pm 1.6	7.8 \pm 3.3	4
	30	40.3 \pm 0.9	18.3 \pm 1.9	4
124	10	43.6 \pm 0.8	11.6 \pm 1.7	4
	30	42.2 \pm 1.1	14.5 \pm 2.3	4
125	10	45.8 \pm 0.6	7.3 \pm 1.2	4
	30	38.9 \pm 0.9 *	21.1 \pm 1.9	4
126	10	46.4 \pm 1.1	6.0 \pm 2.2	4
	30	30.9 \pm 0.9 **	37.3 \pm 2.0	4
127	10	45.5 \pm 1.2	7.9 \pm 2.4	4
	30	39.3 \pm 0.4 *	20.5 \pm 0.9	4
128	3	47.2 \pm 2.1	4.2 \pm 4.3	4
	10	45.9 \pm 1.6	6.9 \pm 3.3	4
129	10	45.3 \pm 1.2	8.2 \pm 2.4	4
	30	38.1 \pm 1.3 *	22.7 \pm 2.6	4
130	10	46.3 \pm 0.9	6.2 \pm 1.8	4
	30	43.5 \pm 1.2	11.9 \pm 2.4	4
131	3	48.5 \pm 1.8	1.7 \pm 3.6	4
	10	39.7 \pm 1.3	19.4 \pm 2.8	4
132	3	48.7 \pm 0.8	1.4 \pm 1.8	4
	10	42.4 \pm 0.4	14.1 \pm 0.9	4
133	10	44.4 \pm 1.0	10.1 \pm 2.0	4
	30	38.6 \pm 0.2 *	21.8 \pm 0.5	4
134	10	47.9 \pm 1.5	3.0 \pm 3.0	4
	30	38.5 \pm 0.9 *	22.1 \pm 1.9	4
135	10	50.6 \pm 1.4	-4.8 \pm 4.5	4
	30	40.9 \pm 1.0	15.5 \pm 3.3	4
136	10	46.8 \pm 1.0	2.9 \pm 3.4	4
	30	44.9 \pm 0.5	6.9 \pm 1.7	4
137	10	49.4 \pm 0.6	-2.5 \pm 1.9	4
	30	46.7 \pm 0.3	3.2 \pm 1.1	4
138	10	48.5 \pm 0.3	-0.3 \pm 1.2	4
	30	41.2 \pm 0.6	14.7 \pm 2.0	4
L-NAME	100	32.5 \pm 1.2 **	34.1 \pm 3.7	3
	300	17.9 \pm 0.4 **	63.5 \pm 1.5	3
	1000	4.5 \pm 0.2 **	90.8 \pm 0.6	3
IC ₅₀ (μ M)		0.81	\pm 0.10	

*P<0.05, **P<0.01; L-NAME : positive control; compound **24,27,28** 於高濃度時細胞毒性大, 會造成細胞死亡.