Table 51 The inhibitory effects of compounds **83-97** on accumulation of nitrite in medium (*in vitro*)

Animal: RAW 264.7 cells(*in vitro*) Inducer: LPS 1μg/ml

Drug	Conc. (μM)	Nitrite accumulation		N
		μM	(%inh.)	
Control		43.3±1.0	--	3
83	10	35.4±0.8*	18.3±1.9*	3
	30	29.7±0.3**	31.4±0.7**	3
84	10	36.8±0.8*	14.8±1.8	3
	30	25.9±3.0**	40.2±7.0	3
85	10	35.0±0.9*	19.1±2.2	3
	30	26.0±1.2**	39.9±2.8	3
86	10	36.7±1.4*	15.2±3.4	3
	30	26.3±1.8**	39.3±4.3	3
87	3	36.4±1.8*	16.1±4.1	3
	10	35.7±0.6*	17.7±1.6	3
	30	20.5±1.1**	52.6±2.7	3
IC_{50} (μM)		28.3±1.3		3
88	10	35.2±2.3*	18.7±5.3	3
	30	24.7±0.4**	42.9±1.0	3
89	10	33.6±2.0*	22.5±4.8	3
	30	33.8±1.3*	21.9±3.1	3
90	10	38.2±0.1	11.7±0.2	3
	30	31.3±1.0*	27.8±2.4	3
91	10	42.3±1.0	2.2±2.4	3
	30	35.7±1.2	17.5±2.9	3
92	10	38.6±2.4	10.9±5.7	3
	30	30.6±1.8**	29.3±4.2	3
93	10	34.7±0.8*	19.8±2.0	3
	30	26.1±1.9**	39.8±4.5	3
94	3	35.9±0.8*	17.2±1.8	3
	10	29.8±2.3**	31.0±5.3	3
	30	20.9±2.6**	51.7±6.0	3
IC_{50} (μM)		28.3±3.7		3
94	10	39.4±1.7	9.0±4.0	3
	30	29.7±1.0**	31.4±2.4	3
96	10	36.6±1.5	15.4±3.4	3
	30	33.8±1.2*	21.9±2.9	3
97	10	39.4±1.4	9.1±3.4	3
	30	30.4±1.8**	29.8±4.1	3
L-NAME	(0.03mM)	28.5±2.4**	34.2±5.6	3
	(0.3mM)	18.1±0.2**	58.3±0.6	3
	(1mM)	10.2±0.9**	76.4±2.1	3
IC_{50} (μM)		0.27±0.08		

*P<0.05 , ** P<0.01,

L-NAME: positive control (*N*-ω-Nitro-L-Arginine methylester)

Table 53 The inhibitory effects of compounds **139-153** on accumulation of nitrite in medium (*in vitro*)

Animal: RAW 264.7 cells(*in vitro*) Inducer: LPS 1μg/ml

No.	Conc. (μM)	Nitrite accumulation μM	(%inh.)	N
Control		35.8±2.9	--	3
139	3	38.2±1.0	-6.7±2.8	3
	10	20.4±1.3**	42.9±3.8	3
140	10	37.2±1.1	-3.9±3.2	3
	30	30.8±3.5	14.1±10.0	3
141	3	33.9±1.1	5.2±3.1	3
	10	30.1±3.3	16.0±9.4	3
142	10	32.4±0.4	9.5±1.2	3
	30	30.7±0.4	14.2±1.1	3
143	10	30.9±0.8	13.7±2.5	3
	30	26.2±0.6*	26.8±1.7	3
144	10	33.2±1.1	7.1±3.1	3
	30	29.4±0.1	17.7±0.2	3
145	3	32.1±0.3	10.5±0.9	3
	10	24.8±0.6**	30.8±1.7	3
146	10	30.3±4.7	15.2±13.2	3
	30	25.1±0.4**	29.9±1.1	3
147	10	26.4±1.4*	26.2±4.1	3
	30	23.5±0.5**	34.3±1.5	3
148	10	26.4±1.6*	26.2±4.5	3
	30	28.5±1.1	20.2±3.2	3
149	3	27.1±1.1*	24.2±3.1	3
	10	27.7±5.3	22.7±14.9	3
150	10	29.4±0.7	17.8±2.0	3
	30	21.6±2.0**	39.5±5.6	3
151	10	31.7±0.9	11.4±2.7	3
	30	26.8±0.5*	25.2±1.4	3
152	10	33.4±1.5	6.7±4.4	3
	30	34.8±3.7	2.9±10.4	3
153	10	23.9±0.7**	33.0±2.1	3
	30	25.6±2.8*	28.6±8.0	3
L-NAME	(0.03mM)	23.5±1.9**	34.2±5.6	3
	(0.3mM)	14.9±0.2**	58.3±0.6	3
	(1mM)	8.4±0.7**	76.4±2.1	3
IC_{50}			0.27±0.08mM	

*P<0.05 , ** P<0.01, **化合物 139,141,145,149 於高濃度時有細胞毒性。**

L-NAME: positive control (*N*-ω-Nitro-L-Arginine methylester)

Table 52 The inhibitory effects of compounds **109-123** on accumulation of nitrite in medium (*in vitro*)

Animal: RAW 264.7 cells(*in vitro*) Inducer: LPS 1μg/ml

Drug	Conc. (μM)	Nitrite accumulation μM	(%inh.)	N
Control		61.6±3.3	--	3
109	(10)	68.1±0.2	-10.5±0.4	3
	(30)	35.9±1.0**	41.6±1.7	3
110	(10)	73.1±0.8*	-14.6±4.3	3
	(30)	70.6±2.6**	42.8±1.8	3
111	(10)	60.4±1.6	0.1±2.5	3
	(30)	61.5±1.5**	50.1±0.7	3
112	(10)	64.2±0.8	2.1±3.2	3
	(30)	60.3±1.9**	45.9±1.8	3
113	(10)	61.0±0.5	0.9±0.8	3
	(30)	49.2±0.5**	20.1±0.8	3
114	(10)	67.2±2.1	-9.1±3.4	3
	(30)	61.6±1.3	0.01±2.2	3
115	(10)	62.8±2.0	-2.0±3.3	3
	(30)	53.1±0.9*	13.8±1.5	3
116	(10)	55.7±2.5	9.4±4.2	3
	(30)	53.2±3.9*	13.6±6.3	3
117	(10)	58.2±3.6	5.5±5.9	3
	(30)	58.9±2.2	4.4±3.6	3
118	(10)	64.1±1.4	-4.1±2.3	3
	(30)	57.5±3.5	6.6±5.7	3
119	(10)	53.7±3.1*	12.8±5.1	3
	(30)	41.0±0.7**	33.4±1.2	3
120	(10)	59.6±2.3	3.3±3.7	3
	(30)	50.9±3.2**	17.4±5.3	3
121	(10)	64.5±2.2	-4.7±3.6	3
	(30)	62.6±1.0	-1.6±1.7	3
122	(10)	66.8±0.4	-8.3±0.6	3
	(30)	58.8±0.4	4.5±0.8	3
123	(10)	50.7±4.3**	17.6±7.1	3
	(30)	52.3±2.2*	14.9±3.6	3
L-NAME	(0.1mM)	48.4±0.1**	21.2±0.2	3
	(0.3mM)	37.4±0.2**	39.1±0.6	3
	(1mM0	24.9±0.2**	59.3±0.5	3
IC_{50}		0.71±0.001mM		

*P<0.05, **P<0.01

L-NAME : positive control (*N*-ω-Nitro-L-Arginine methylester)