

Table 58 The inhibitory effects of compounds **139-153** on accumulation of nitrite in medium (*in vitro*)

| Animal: RAW 264.7 cells(<i>in vitro</i>) | | Inducer : LPS 10ng/ml +10U/ml IFN- γ | | |
|--|------------|---|--------------------|---|
| Drug | Conc. | Nitrite accumulation | | |
| | (μ M) | μ M | (% inhibition) | N |
| Control | | 28.2 \pm 1.2 | -- | 3 |
| 139 | 10 | 27.2 \pm 0.2 | 3.4 \pm 0.9 | 3 |
| | 30 | 22.8 \pm 0.6 | 18.8 \pm 2.4 | 3 |
| 140 | 10 | 26.9 \pm 0.6 | 4.4 \pm 2.4 | 3 |
| | 30 | 28.1 \pm 1.3 | 0.2 \pm 4.7 | 3 |
| 141 | 10 | 24.8 \pm 0.2 | 11.9 \pm 0.7 | 3 |
| | 30 | 18.1 \pm 0.1** | 35.7 \pm 0.2 | 3 |
| 142 | 10 | 27.1 \pm 0.3 | 3.8 \pm 1.3 | 3 |
| | 30 | 20.3 \pm 1.0** | 27.9 \pm 3.6 | 3 |
| 143 | 10 | 23.1 \pm 0.4 | 17.8 \pm 1.5 | 3 |
| | 30 | 16.6 \pm 0.7** | 41.1 \pm 2.4 | 3 |
| 144 | 10 | 25.4 \pm 0.9 | 9.9 \pm 3.4 | 3 |
| | 30 | 21.1 \pm 0.5* | 24.9 \pm 1.9 | 3 |
| 145 | 10 | 22.1 \pm 0.9 | 21.5 \pm 3.1 | 3 |
| | 30 | 18.2 \pm 0.2** | 35.1 \pm 0.8 | 3 |
| 146 | 10 | 24.8 \pm 1.1 | 12.2 \pm 3.9 | 3 |
| | 30 | 22.2 \pm 0.6 | 21.0 \pm 2.2 | 3 |
| 147 | 10 | 30.1 \pm 0.8 | -6.7 \pm 2.8 | 3 |
| | 30 | 27.4 \pm 0.6 | 2.7 \pm 2.3 | 3 |
| 148 | 10 | 27.3 \pm 0.5 | 2.9 \pm 2.1 | 3 |
| | 30 | 28.1 \pm 0.9 | 0.3 \pm 3.2 | 3 |
| 149 | 10 | 24.9 \pm 0.5 | 11.6 \pm 1.7 | 3 |
| | 30 | 16.9 \pm 0.4** | 39.8 \pm 1.4 | 3 |
| 150 | 10 | 27.8 \pm 0.6 | 1.3 \pm 2.2 | 3 |
| | 30 | 27.2 \pm 1.3 | 3.3 \pm 4.8 | 3 |
| 151 | 10 | 26.5 \pm 0.9 | 6.0 \pm 3.4 | 3 |
| | 30 | 27.1 \pm 0.8 | 3.8 \pm 3.1 | 3 |
| 152 | 10 | 26.7 \pm 1.1 | 5.2 \pm 3.9 | 3 |
| | 30 | 29.9 \pm 0.6 | -6.1 \pm 2.1 | 3 |
| 153 | 10 | 26.6 \pm 1.2 | 5.4 \pm 4.3 | 3 |
| | 30 | 27.0 \pm 1.0 | 4.2 \pm 3.6 | 3 |
| L-NAME | 0.1mM | 21.8 \pm 1.6* | 23.4 \pm 5.8 | 3 |
| | 0.3mM | 15.8 \pm 0.8** | 44.4 \pm 3.2 | 3 |
| | 1mM | 10.3 \pm 0.5** | 64.8 \pm 2.0 | 3 |
| IC ₅₀ | | | 0.59 \pm 0.002mM | |

*P<0.05 , **P<0.01

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

Table 57 The inhibitory effects of compounds **109-123** on accumulation of nitrite in medium (*in vitro*)

Animal: RAW 264.7 cells(*in vitro*)

Inducer : LPS 10ng/ml +10U/ml IFN- γ

| Drug | (μ M) | Nitrite accumulation | | N |
|------------------|------------|----------------------|--------------------|---|
| | | μ M | (%inh.) | |
| Control | | 53.9 \pm 1.1 | -- | 3 |
| 109 | (10) | 52.8 \pm 0.3 | 2.1 \pm 0.5 | 3 |
| | (30) | 40.9 \pm 1.6** | 24.2 \pm 3.1 | 3 |
| 110 | (10) | 49.6 \pm 0.2 | 8.1 \pm 0.4 | 3 |
| | (30) | 39.4 \pm 1.1** | 26.9 \pm 2.1 | 3 |
| 111 | (10) | 54.1 \pm 1.1 | -0.3 \pm 2.1 | 3 |
| | (30) | 48.4 \pm 1.6* | 10.3 \pm 3.0 | 3 |
| 112 | (10) | 54.5 \pm 0.8 | -0.9 \pm 1.5 | 3 |
| | (30) | 47.4 \pm 0.3** | 12.2 \pm 0.6 | 3 |
| 113 | (10) | 51.6 \pm 0.6 | 4.3 \pm 1.2 | 3 |
| | (30) | 40.9 \pm 0.4** | 24.2 \pm 0.7 | 3 |
| 114 | (10) | 52.9 \pm 1.0 | 1.9 \pm 1.8 | 3 |
| | (30) | 45.8 \pm 0.9** | 15.1 \pm 1.7 | 3 |
| 115 | (10) | 52.9 \pm 1.1 | 1.8 \pm 2.0 | 3 |
| | (30) | 46.9 \pm 0.9** | 12.9 \pm 1.7 | 3 |
| 116 | (10) | 50.3 \pm 0.1 | 6.9 \pm 0.3 | 3 |
| | (30) | 42.1 \pm 1.2** | 21.9 \pm 2.2 | 3 |
| 117 | (10) | 55.0 \pm 0.8 | -1.9 \pm 1.4 | 3 |
| | (30) | 48.7 \pm 2.0 | 9.6 \pm 3.8 | 3 |
| 118 | (10) | 52.1 \pm 0.4 | 3.4 \pm 0.7 | 3 |
| | (30) | 39.4 \pm 1.5** | 26.9 \pm 2.9 | 3 |
| 119 | (10) | 47.4 \pm 0.6** | 12.2 \pm 1.1 | 3 |
| | (30) | 35.7 \pm 0.7** | 33.8 \pm 1.3 | 3 |
| 120 | (10) | 50.0 \pm 1.0 | 7.4 \pm 1.9 | 3 |
| | (30) | 40.2 \pm 2.2** | 25.4 \pm 4.0 | 3 |
| 121 | (10) | 52.5 \pm 0.8 | 2.7 \pm 1.5 | 3 |
| | (30) | 49.8 \pm 0.8 | 7.6 \pm 1.5 | 3 |
| 122 | (10) | 54.5 \pm 1.4 | -0.9 \pm 2.6 | 3 |
| | (30) | 49.2 \pm 0.5 | 8.8 \pm 0.9 | 3 |
| 123 | (10) | 51.3 \pm 1.0 | 4.9 \pm 1.9 | 3 |
| | (30) | 48.9 \pm 2.5 | 9.4 \pm 4.6 | 3 |
| L-NAME | (0.1mM) | 46.9 \pm 1.3** | 12.9 \pm 2.5 | 3 |
| | (0.3mM) | 34.0 \pm 0.3** | 36.2 \pm 0.6 | 3 |
| | (1mM) | 26.3 \pm 0.4 | 50.6 \pm 0.9 | 3 |
| IC ₅₀ | | | 0.84 \pm 0.001mM | 3 |

*P<0.05, **P<0.01

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