

The Effect of Methyl-Derivatives of Flavanone on MCP-1, MIP-1 β , RANTES, and Eotaxin Release by Activated RAW264.7 Macrophages

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Table S1. Results of pair-wise comparisons of test compounds on the production MCP-1 in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

Table S2. Results of pair-wise comparisons of test compounds on the production MIP-1 β in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

Table S3. Results of pair-wise comparisons of test compounds on the production RANTES in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

Table S4. Results of pair-wise comparisons of test compounds on the production eotaxin in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

Table S1. Results of pair-wise comparisons of test compounds on the production MCP-1 in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

LSD test; variable MCP-1

Probabilities for Post Hoc Tests

Cell Error: Between MS = 451,66, df = 26,000

| No. | sample | {1} | {2} | {3} | {4} | {5} | {6} | {7} | {8} | {9} | {10} | {11} | {12} | {13} |
|-----|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | DMSO + LPS (5B, 6B) | | 0.000009 | 0.000008 | 0.000043 | 0.000009 | 1.000000 | 0.007050 | 0.860102 | 0.081197 | 0.004759 | 1.000000 | 0.201345 | 0.983816 |
| 2 | 5B 1µM + LPS | 0.000009 | | 0.949250 | 0.569442 | 0.992730 | 0.000009 | 0.016789 | 0.000015 | 0.001108 | 0.024172 | 0.000009 | 0.000000 | 0.000009 |
| 3 | 5B 20µM + LPS | 0.000008 | 0.949250 | | 0.527481 | 0.956507 | 0.000008 | 0.014486 | 0.000013 | 0.000939 | 0.020939 | 0.000008 | 0.000000 | 0.000008 |
| 4 | 6B 1µM + LPS | 0.000043 | 0.569442 | 0.527481 | | 0.563333 | 0.000043 | 0.058434 | 0.000069 | 0.004718 | 0.080639 | 0.000043 | 0.000001 | 0.000041 |
| 5 | 6B 20µM + LPS | 0.000009 | 0.992730 | 0.956507 | 0.563333 | | 0.000009 | 0.016440 | 0.000015 | 0.001082 | 0.023683 | 0.000009 | 0.000000 | 0.000009 |
| 6 | DMSO + LPS (7B, 8B) | 1.000000 | 0.000009 | 0.000008 | 0.000043 | 0.000009 | | 0.007050 | 0.860102 | 0.081197 | 0.004759 | 1.000000 | 0.201345 | 0.983816 |
| 7 | 7B 1µM + LPS | 0.007050 | 0.016789 | 0.014486 | 0.058434 | 0.016440 | 0.007050 | | 0.010768 | 0.276709 | 0.872748 | 0.007050 | 0.000252 | 0.006711 |
| 8 | 7B 20µM + LPS | 0.860102 | 0.000015 | 0.000013 | 0.000069 | 0.000015 | 0.860102 | 0.010768 | | 0.113838 | 0.007331 | 0.860102 | 0.148538 | 0.844212 |
| 9 | 8B 1µM + LPS | 0.081197 | 0.001108 | 0.000939 | 0.004718 | 0.001082 | 0.081197 | 0.276709 | 0.113838 | | 0.214345 | 0.081197 | 0.004334 | 0.078014 |
| 10 | 8B 20µM + LPS | 0.004759 | 0.024172 | 0.020939 | 0.080639 | 0.023683 | 0.004759 | 0.872748 | 0.007331 | 0.214345 | | 0.004759 | 0.000165 | 0.004526 |
| 11 | DMSO + LPS (FL) | 1.000000 | 0.000009 | 0.000008 | 0.000043 | 0.000009 | 1.000000 | 0.007050 | 0.860102 | 0.081197 | 0.004759 | | 0.201345 | 0.983816 |
| 12 | fl 1µM + LPS | 0.201345 | 0.000000 | 0.000000 | 0.000001 | 0.000000 | 0.201345 | 0.000252 | 0.148538 | 0.004334 | 0.000165 | 0.201345 | | 0.208256 |
| 13 | fl 20µM + LPS | 0.983816 | 0.000009 | 0.000008 | 0.000041 | 0.000009 | 0.983816 | 0.006711 | 0.844212 | 0.078014 | 0.004526 | 0.983816 | 0.208256 | |

Table S2. Results of pair-wise comparisons of test compounds on the production MIP-1 β in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

| LSD test; variable MIP-1 β | | | | | | | | | | | | | | |
|----------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Probabilities for Post Hoc Tests | | | | | | | | | | | | | | |
| Cell No. | Error: Between MS = 8,6248, df = 26,000 | | | | | | | | | | | | | |
| | sample | {1} | {2} | {3} | {4} | {5} | {6} | {7} | {8} | {9} | {10} | {11} | {12} | {13} |
| 1 | DMSO + LPS (5B, 6B) | | 0.000497 | 0.000000 | 0.024173 | 0.030536 | 1.000000 | 0.014348 | 0.095306 | 0.164727 | 0.008244 | 1.000000 | 0.313226 | 0.243199 |
| 2 | 5B 1 μ M + LPS | 0.000497 | | 0.000086 | 0.125688 | 0.103277 | 0.000497 | 0.000001 | 0.000005 | 0.000012 | 0.000000 | 0.000497 | 0.006679 | 0.000021 |
| 3 | 5B 20 μ M + LPS | 0.000000 | 0.000086 | | 0.000001 | 0.000001 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 4 | 6B 1 μ M + LPS | 0.024173 | 0.125688 | 0.000001 | | 0.916189 | 0.024173 | 0.000032 | 0.000337 | 0.000739 | 0.000017 | 0.024173 | 0.183783 | 0.001355 |
| 5 | 6B 20 μ M + LPS | 0.030536 | 0.103277 | 0.000001 | 0.916189 | | 0.030536 | 0.000042 | 0.000445 | 0.000973 | 0.000023 | 0.030536 | 0.219120 | 0.001776 |
| 6 | DMSO + LPS (7B, 8B) | 1.000000 | 0.000497 | 0.000000 | 0.024173 | 0.030536 | | 0.014348 | 0.095306 | 0.164727 | 0.008244 | 1.000000 | 0.313226 | 0.243199 |
| 7 | 7B 1 μ M + LPS | 0.014348 | 0.000001 | 0.000000 | 0.000032 | 0.000042 | 0.014348 | | 0.379970 | 0.243065 | 0.815366 | 0.014348 | 0.001149 | 0.164629 |
| 8 | 7B 20 μ M + LPS | 0.095306 | 0.000005 | 0.000000 | 0.000337 | 0.000445 | 0.095306 | 0.379970 | | 0.765542 | 0.269191 | 0.095306 | 0.010466 | 0.595944 |
| 9 | 8B 1 μ M + LPS | 0.164727 | 0.000012 | 0.000000 | 0.000739 | 0.000973 | 0.164727 | 0.243065 | 0.765542 | | 0.164513 | 0.164727 | 0.020948 | 0.815677 |
| 10 | 8B 20 μ M + LPS | 0.008244 | 0.000000 | 0.000000 | 0.000017 | 0.000023 | 0.008244 | 0.815366 | 0.269191 | 0.164513 | | 0.008244 | 0.000625 | 0.107743 |
| 11 | DMSO + LPS (FL) | 1.000000 | 0.000497 | 0.000000 | 0.024173 | 0.030536 | 1.000000 | 0.014348 | 0.095306 | 0.164727 | 0.008244 | | 0.313226 | 0.243199 |
| 12 | fl 1 μ M + LPS | 0.313226 | 0.006679 | 0.000000 | 0.183783 | 0.219120 | 0.313226 | 0.001149 | 0.010466 | 0.020948 | 0.000625 | 0.313226 | | 0.035152 |
| 13 | fl 20 μ M + LPS | 0.243199 | 0.000021 | 0.000000 | 0.001355 | 0.001776 | 0.243199 | 0.164629 | 0.595944 | 0.815677 | 0.107743 | 0.243199 | 0.035152 | |

Table S3. Results of pair-wise comparisons of test compounds on the production RANTES in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

LSD test; variable RANTES
 Probabilities for Post Hoc Tests
 Error: Between MS = 231,90, df = 26,000

| Cell No. | sample | {1} | {2} | {3} | {4} | {5} | {6} | {7} | {8} | {9} | {10} | {11} | {12} | {13} |
|----------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | DMSO + LPS (5B, 6B) | | 0.329811 | 0.001264 | 0.014710 | 0.213420 | 1.000000 | 0.018808 | 0.171286 | 0.417540 | 0.006214 | 1.000000 | 0.788692 | 0.112843 |
| 2 | 5B 1µM + LPS | 0.329811 | | 0.014408 | 0.117247 | 0.779896 | 0.329811 | 0.001701 | 0.023848 | 0.080775 | 0.000505 | 0.329811 | 0.217483 | 0.014022 |
| 3 | 5B 20µM + LPS | 0.001264 | 0.014408 | | 0.325525 | 0.027235 | 0.001264 | 0.000002 | 0.000032 | 0.000148 | 0.000001 | 0.001264 | 0.000629 | 0.000017 |
| 4 | 6B 1µM + LPS | 0.014710 | 0.117247 | 0.325525 | | 0.192522 | 0.014710 | 0.000025 | 0.000443 | 0.001989 | 0.000007 | 0.014710 | 0.007782 | 0.000240 |
| 5 | 6B 20µM + LPS | 0.213420 | 0.779896 | 0.027235 | 0.192522 | | 0.213420 | 0.000825 | 0.012534 | 0.045649 | 0.000241 | 0.213420 | 0.134127 | 0.007202 |
| 6 | DMSO + LPS (7B, 8B) | 1.000000 | 0.329811 | 0.001264 | 0.014710 | 0.213420 | | 0.018808 | 0.171286 | 0.417540 | 0.006214 | 1.000000 | 0.788692 | 0.112843 |
| 7 | 7B 1µM + LPS | 0.018808 | 0.001701 | 0.000002 | 0.000025 | 0.000825 | 0.018808 | | 0.281896 | 0.104542 | 0.641034 | 0.018808 | 0.034223 | 0.395044 |
| 8 | 7B 20µM + LPS | 0.171286 | 0.023848 | 0.000032 | 0.000443 | 0.012534 | 0.171286 | 0.281896 | | 0.564828 | 0.128360 | 0.171286 | 0.266255 | 0.816784 |
| 9 | 8B 1µM + LPS | 0.417540 | 0.080775 | 0.000148 | 0.001989 | 0.045649 | 0.417540 | 0.104542 | 0.564828 | | 0.040707 | 0.417540 | 0.584972 | 0.421252 |
| 10 | 8B 20µM + LPS | 0.006214 | 0.000505 | 0.000001 | 0.000007 | 0.000241 | 0.006214 | 0.641034 | 0.128360 | 0.040707 | | 0.006214 | 0.011841 | 0.192937 |
| 11 | DMSO + LPS (FL) | 1.000000 | 0.329811 | 0.001264 | 0.014710 | 0.213420 | 1.000000 | 0.018808 | 0.171286 | 0.417540 | 0.006214 | | 0.788692 | 0.112843 |
| 12 | fl 1µM + LPS | 0.788692 | 0.217483 | 0.000629 | 0.007782 | 0.134127 | 0.788692 | 0.034223 | 0.266255 | 0.584972 | 0.011841 | 0.788692 | | 0.182341 |
| 13 | fl 20µM + LPS | 0.112843 | 0.014022 | 0.000017 | 0.000240 | 0.007202 | 0.112843 | 0.395044 | 0.816784 | 0.421252 | 0.192937 | 0.112843 | 0.182341 | |

Table S4. Results of pair-wise comparisons of test compounds on the production eotaxin in compared to control and flavanone in LPS stimulated RAW264.1 cells (n=3). Statistical significance was analysed using Fisher's LSD test. Results marked in red are statistically significant in Fisher's LSD test. Multivariate Tests of Significance (F = 8.20, p < 0.05).

| LSD test; variable eotaxin | | | | | | | | | | | | | | | |
|----------------------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Probabilities for Post Hoc Tests | | | | | | | | | | | | | | | |
| Cell No. | Error: Between MS = 111,89, df = 26,000 | sample | {1} | {2} | {3} | {4} | {5} | {6} | {7} | {8} | {9} | {10} | {11} | {12} | {13} |
| 1 | DMSO + LPS (5B, 6B) | | 0.000505 | 0.001030 | 0.012593 | 0.000100 | 1.000000 | 0.426578 | 0.235467 | 0.508481 | 0.105781 | 1.000000 | 0.934649 | 0.550337 | |
| 2 | 5B 1µM + LPS | 0.000505 | | 0.784974 | 0.208330 | 0.542086 | 0.000505 | 0.003949 | 0.000021 | 0.002807 | 0.000006 | 0.000505 | 0.000407 | 0.000103 | |
| 3 | 5B 20µM + LPS | 0.001030 | 0.784974 | | 0.319671 | 0.379801 | 0.001030 | 0.007725 | 0.000043 | 0.005545 | 0.000013 | 0.001030 | 0.000832 | 0.000213 | |
| 4 | 6B 1µM + LPS | 0.012593 | 0.208330 | 0.319671 | | 0.067490 | 0.012593 | 0.072398 | 0.000615 | 0.054918 | 0.000184 | 0.012593 | 0.010373 | 0.002912 | |
| 5 | 6B 20µM + LPS | 0.000100 | 0.542086 | 0.379801 | 0.067490 | | 0.000100 | 0.000826 | 0.000004 | 0.000579 | 0.000001 | 0.000100 | 0.000080 | 0.000020 | |
| 6 | DMSO + LPS (7B, 8B) | 1.000000 | 0.000505 | 0.001030 | 0.012593 | 0.000100 | | 0.426578 | 0.235467 | 0.508481 | 0.105781 | 1.000000 | 0.934649 | 0.550337 | |
| 7 | 7B 1µM + LPS | 0.426578 | 0.003949 | 0.007725 | 0.072398 | 0.000826 | 0.426578 | | 0.053552 | 0.891874 | 0.019784 | 0.426578 | 0.381355 | 0.169558 | |
| 8 | 7B 20µM + LPS | 0.235467 | 0.000021 | 0.000043 | 0.000615 | 0.000004 | 0.235467 | 0.053552 | | 0.070658 | 0.648492 | 0.235467 | 0.268082 | 0.547560 | |
| 9 | 8B 1µM + LPS | 0.508481 | 0.002807 | 0.005545 | 0.054918 | 0.000579 | 0.508481 | 0.891874 | 0.070658 | | 0.026867 | 0.508481 | 0.458069 | 0.213382 | |
| 10 | 8B 20µM + LPS | 0.105781 | 0.000006 | 0.000013 | 0.000184 | 0.000001 | 0.105781 | 0.019784 | 0.648492 | 0.026867 | | 0.105781 | 0.123265 | 0.294196 | |
| 11 | DMSO + LPS (FL) | 1.000000 | 0.000505 | 0.001030 | 0.012593 | 0.000100 | 1.000000 | 0.426578 | 0.235467 | 0.508481 | 0.105781 | | 0.934649 | 0.550337 | |
| 12 | fl 1µM + LPS | 0.934649 | 0.000407 | 0.000832 | 0.010373 | 0.000080 | 0.934649 | 0.381355 | 0.268082 | 0.458069 | 0.123265 | 0.934649 | | 0.605857 | |
| 13 | fl 20µM + LPS | 0.550337 | 0.000103 | 0.000213 | 0.002912 | 0.000020 | 0.550337 | 0.169558 | 0.547560 | 0.213382 | 0.294196 | 0.550337 | 0.605857 | | |

