



ACCEPTED MANUSCRIPT

This is an early electronic version of an as-received manuscript that has been accepted for publication in the Journal of the Serbian Chemical Society but has not yet been subjected to the editing process and publishing procedure applied by the JSCS Editorial Office.

Please cite this article as I. I. Jevtić, J. Z. Penjišević, K. R. Savić-Vujović, D. P. Srebro, S. M. Vučković, M. D. Ivanović, S. V. Kostić-Rajačić, *J. Serb. Chem. Soc.* (2019) <https://doi.org/10.2298/JSC190912118J>

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N-(1-(7-(4-(2-Methoxyphenyl)piperazin-1-yl)heptyl)piperidin-4-yl)-*N*-phenylpropionamide, (**II**). Yield: 0.24 g (91.2 %); pale yellow oil. IR (ATR): 3059, 2810, 1659, 1595, 1499, 1453, 1242, 1028, 807, 748, 707 cm^{-1} . ^1H NMR (500 MHz, CDCl_3): δ = 7.42 – 7.31 (m, 3H), 7.07 (d, J = 6.9 Hz, 2H), 7.03 – 6.95 (m, 1H, partially overlapped), 6.97 – 6.87 (m, 2H, partially overlapped), 6.85 (d, J = 8.0 Hz, 1H), 4.66 (tt, J = 12.2, 4.0 Hz, 1H), 3.85 (s, 3H), 3.10 (br. s, 4H), 2.93 (d, J = 12.0 Hz, 2H), 2.65 (br. s, 4H), 2.43 – 2.34 (m, 2H), 2.30 – 2.21 (m, 2H), 2.06 (td, J = 12.1, 2.3 Hz, 2H), 1.92 (q, J = 7.4 Hz, 2H), 1.77 (d, J = 12.3 Hz, 2H), 1.56 – 1.47 (m, 2H), 1.47 – 1.36 (m, 4H), 1.32 – 1.21 (m, 6H), 1.09 (t, J = 7.4 Hz, 3H) ppm. ^{13}C NMR (126 MHz, CDCl_3): δ = 173.6, 151.4, 141.4, 137.9, 130.5, 129.3, 128.3, 123.0, 121.1, 118.3, 111.3, 58.9, 58.7, 55.4, 53.5, 53.2, 52.3, 50.6, 30.5, 29.5, 28.6, 27.6, 27.6, 27.1, 26.8, 9.7 ppm. HRMS-Heated ESI-Orbitrap: calcd. for $\text{C}_{32}\text{H}_{48}\text{N}_4\text{O}_2$ $[\text{M}+\text{H}]^+$ 521.38560; found 521.38560.

N-(1-(7-(4-(2,3-Dichlorophenyl)piperazin-1-yl)heptyl)piperidin-4-yl)-*N*-phenylpropionamide, (**Im**). Yield: 0.26 g (93 %); pale yellow oil. IR (ATR): 3061, 2933, 2811, 1658, 1658, 1578, 1450, 1375, 1260, 1142, 783, 743, 708 cm^{-1} . ^1H NMR (500 MHz, CDCl_3): δ = 7.43 – 7.33 (m, 3H), 7.18 – 7.12 (m, 2H), 7.07 (d, J = 7.3 Hz, 2H), 6.96 (dd, J = 6.7, 2.8 Hz, 1H), 4.76 – 4.54 (m, 1H), 3.07 (br. s, 4H), 2.93 (d, J = 11.5 Hz, 2H), 2.65 (br. s, 4H), 2.47 – 2.34 (m, 2H), 2.32 – 2.22 (m, 2H), 2.06 (t, J = 11.4 Hz, 2H), 1.92 (q, J = 7.4 Hz, 2H), 1.77 (d, J = 12.0 Hz, 2H), 1.62 – 1.46 (m, 2H, partially overlapped), 1.49 – 1.34 (m, 4H, partially overlapped), 1.34 – 1.20 (m, 6H, partially overlapped), 1.01 (t, J = 7.4 Hz, 3H) ppm. ^{13}C NMR (126 MHz, CDCl_3): δ = 173.6, 151.4, 139.0, 134.1, 130.5, 129.4, 128.3, 127.5, 124.4, 118.7, 58.9, 58.8, 53.4, 53.3, 52.3, 51.4, 30.6, 29.6, 28.6, 27.7, 27.6, 27.1, 26.9, 9.7 ppm. HRMS-Heated ESI-Orbitrap: calcd. for $\text{C}_{31}\text{H}_{44}\text{Cl}_2\text{N}_4\text{O}$ $[\text{M}+\text{H}]^+$ 559.29709; found 559.29701.