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Supplementary material: Physical and Spectral Data for Compounds **1a**, **1b** and **1c**

Compound **1a**

mp 162-163.5 °C. (ether/hexane)

^1H NMR 300 MHz ($\text{CDCl}_3/\text{D}_2\text{O}$) δ 7.5-7.2 (m, 16 H), 7.00 (d, $J=6.0$ Hz, 4H), 5.04 (d, $J=11.4$ Hz, 2H), 4.79 (d, $J=11.4$ Hz, 2H), 3.96 (s, 2H), 3.78 (dd, $J=11.7$, 3.0 Hz, 2H), 3.63 (dd, $J=11.4$, 3.0 Hz, 2H), 3.56 (s, 2H), 3.03 (dd, $J=14.1$, 12.0 Hz, 2H)

^{13}C NMR (75 MHz, $\text{CDCl}_3/\text{D}_2\text{O}$) δ 137.82, 136.80, 129.40, 128.93, 128.56, 128.14, 128.05, 127.05, 76.58, 76.36, 74.95, 66.95, 31.76

UV (methanol) $\lambda = 258.6$ nm, $\epsilon = 780$

Anal. Calcd. for $\text{C}_{34}\text{H}_{36}\text{SO}_6$: C, 71.30; H, 6.34

Found: C, 71.20; H, 6.35.

Compound **1b**

Bis methanesulfonate salt tetrahydrate amorphous solid

^1H NMR (500 MHz , DMSO) δ 7.52 (t, $J=7.5$ Hz, 2H), 7.44 (d, $J=8.0$ Hz, 2H), 7.35-7.2 (m, 12H), 7.11 (d, $J=7.5$ Hz, 2H). 4.93 (d, $J=12.3$ Hz, 2H), 4.88 (d, $J=12.2$, 2H), 3.67 (dd, $J=11.2$, 3.4 Hz, 2H), 3.39 (dd, $J=13.6$, 2.9 Hz, 2H), 2.99 (dd, $J=13.7$, 11.8 Hz, 2H), 2.35 (s, 6H)

^{13}C NMR via HMQC (125 MHz, DMSO) δ 130.45, 129.8, 129.67, 127.63, 126.4, 121.66, 121.18, 78.63, 75.69, 74.30, 67.12, 39.78, 32.06

UV (50% acetonitrile/ pH7 potassium phosphate) λ 239 nm $\epsilon = 15000$

Anal. Calcd. for $\text{C}_{34}\text{H}_{38}\text{SO}_6\text{N}_2 \cdot 2\text{CH}_4\text{SO}_3 \cdot 4\text{H}_2\text{O}$: C, 49.87; H, 6.28; N, 3.23.

Found: C, 49.40; H, 5.65; N, 3.22

Compound **1c**

m.p. 96-98° C (benzene)

^1H -NMR (500 MHz, CDCl_3) δ 8.85 (s, 1H); 7.83 (s, 1H); 7.35 (m, 3H); 6.99 (d, $J=7.5$ Hz, 2H); 5.26 (d, $J=11.0$ Hz, 1H); 5.01 (d, $J=12.0$ Hz, 1H); 4.00 (s, 1H); 3.74 (dd, $J=14.0$, 2.0 Hz, 1H); 3.65 (dd, $J=14.0$, 2.0 Hz, 1H); 3.00 (dd, $J=12.0$, 14.0 Hz, 1H).

UV (methanol) λ 240 nm $\epsilon = 8330$

Anal. Calcd. for $\text{C}_{28}\text{H}_{30}\text{S}_3\text{O}_6\text{N}_2 \cdot \text{H}_2\text{O}$: C, 55.61; H, 5.33; N, 4.63

Found: C, 55.55; H, 5.17; N, 4.51

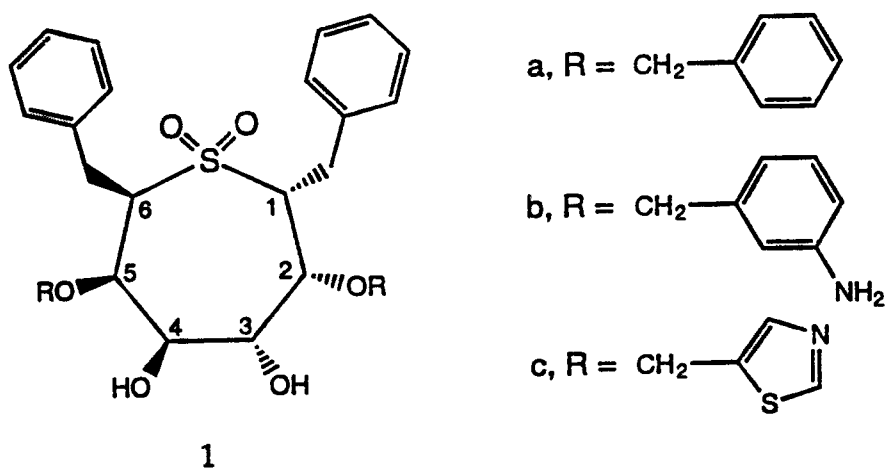


Figure 1. Structures of protease inhibitors.