

Supporting Information

4-Biphenylacetic acid (5a), mp 163-164°C, lit. mp 164-165°C, see Schwenk, E.; Papa, D. *J. Org. Chem.* **1946**, *11*, 798-802. ¹H NMR (CDCl₃) δ 3.69 (s, 2H), 7.39 (m, 5H), 7.56 (m, 4H).

2'-Methyl-(1,1'-biphenyl)-4-acetic acid (5b), mp 110-111°C, lit. mp 110.5-111.5°C, see Merck & Co, Inc. Neth. Appl. **6,511,845**, 1966; *Chem. Abstr.* **1965**, 65, 10531d. ¹H NMR (CDCl₃) δ 2.26 (s, 3H), 3.68 (s, 2H), 7.28 (m, 8H).

3'-Methyl-(1,1'-biphenyl)-4-acetic acid (5c), mp 127-128°C. ¹H NMR (CDCl₃) δ 2.42 (s, 3H), 3.69 (s, 2H), 7.16 (d, 1H), 7.34 (m, 5H), 7.56 (d, 2H). *Anal.* Calcd. for C₁₅H₁₄O₂: C, 79.62; H, 6.24. Found: C, 79.50; H, 6.28.

4'-Methyl-(1,1'-biphenyl)-4-acetic acid (5d), mp 178-179°C, lit. mp 178-180°C, see Merck & Co., Inc. Neth Appl. **6,511,845**, 1966; *Chem. Abstr.* **1965**, 65, 10531d. ¹H NMR (CDCl₃) δ 2.39 (s, 3H), 3.68 (s, 2H), 7.25 (d, 2H), 7.35 (d, 2H), 7.48 (d, 2H), 7.55 (d, 2H).

4'-Methoxy-(1,1'-biphenyl)-4-acetic acid (5e), mp 187-188°C, lit. mp 188-188.5°C, see Linnell, W. H.; Smith, H. J. *J. Chem. Soc.* **1959**, 557-559. ¹H NMR (CDCl₃) δ 3.68 (s, 2H), 3.84 (s, 3H), 6.96 (d, 2H), 7.32 (d, 2H), 7.50 (m, 4H).

Diphenylacetic acid (6a), mp 143-144°C, lit. mp 144-145°C, see Marvel, C. S.; Hager, F. D.; Caudle, E. C. *Org. Syn. Coll. Vol. I* **1932**, 224-225. ¹H NMR (CDCl₃) δ 5.02 (s, 1H), 7.29 (m, 10H).

4-Methoxydiphenylacetic acid (6b), mp 102-104°C, lit. mp 104-105°C; see Nagano, T. *J. Am. Chem. Soc.* **1955**, *77*, 6680-6681. ¹H NMR (CDCl₃) δ 3.74 (s, 3H), 4.96 (s, 1H), 6.85 (d, 2H), 7.27 (m, 7H).

2,4'-Dimethoxy-(1,1'-biphenyl)-4-acetic acid (8a), mp 109-111°C, lit. mp 110-112°C, see Logemann, W. *Hoppe-Seylers Z. Physiol. Chem.* **1952**, *290*, 61-66; *Chem. Abstr.* **1955**, 49, 1751h. ¹H NMR (CDCl₃) δ 3.67 (s, 2H), 3.80 (s, 3H), 3.83 (s, 3H), 6.93 (m, 4H), 7.26 (s, 1H), 7.46 (d, 2H).

4'-Methoxy-3-methyl-(1,1'-biphenyl)-4-acetic acid (8b), mp 162-164°C. ¹H NMR (CDCl₃) δ 2.38 (s, 3H), 3.70 (s, 2H), 3.84 (s, 3H), 6.96 (m, 2H), 7.24 (d, 1H), 7.36 (m, 2H), 7.51 (m, 2H). HRMS: Calcd. for C₁₆H₁₆O₃: 256.1099. Found: 256.1124.

4-(1-Naphthyl)phenylacetic acid (9), mp 116-117°C. ¹H NMR (CDCl₃) δ 3.78 (s, 2H), 7.45 (m, 8H), 7.87 (m, 3H). *Anal.* Calcd. for C₁₈H₁₄O₂: C, 82.42; H, 5.38. Found: C, 82.43; H, 5.37.

4-(2-Naphthyl)phenylacetic acid (10), mp 187-188°C, lit. mp 186-187°C, see Phillips, D. D.; Chatterjee, D. N. *J. Am. Chem. Soc.* **1958**, *80*, 1360-1366. ¹H NMR (CDCl₃) δ 3.74 (s, 2H), 7.41 (m, 2H), 7.49 (m, 2H), 7.71 (m, 3H), 7.89 (m, 3H), 8.03 (s, 1H).