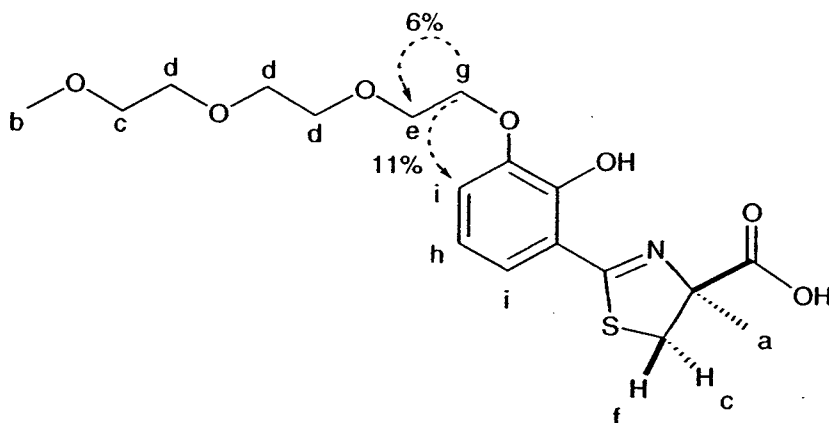


1/6

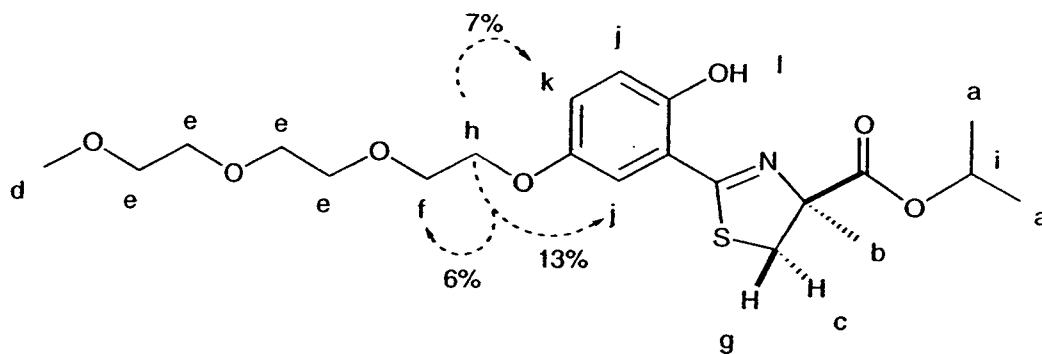
<sup>1</sup>H Assignment (9)

(multiplicity, integration, coupling constant in Hz)

|   |                            |
|---|----------------------------|
| a | 1.77 (s, 3 H)              |
| b | 3.35 (s, 3 H)              |
| c | 3.56-3.62 (m, 3 H)         |
| d | 3.64-3.68 (m, 2 H)         |
| d | 3.68-3.73 (m, 2 H)         |
| d | 3.75-3.89 (m, 2 H)         |
| e | 3.92-3.96 (m, 2 H)         |
| f | 3.99 (d, 1 H, $J = 11.6$ ) |
| g | 4.25-4.31 (m, 2 H)         |
| h | 6.99 (t, 1 H, $J = 8.2$ )  |
| i | 7.26-7.33 (two d, 2 H)     |

**Figure 1**

2/6

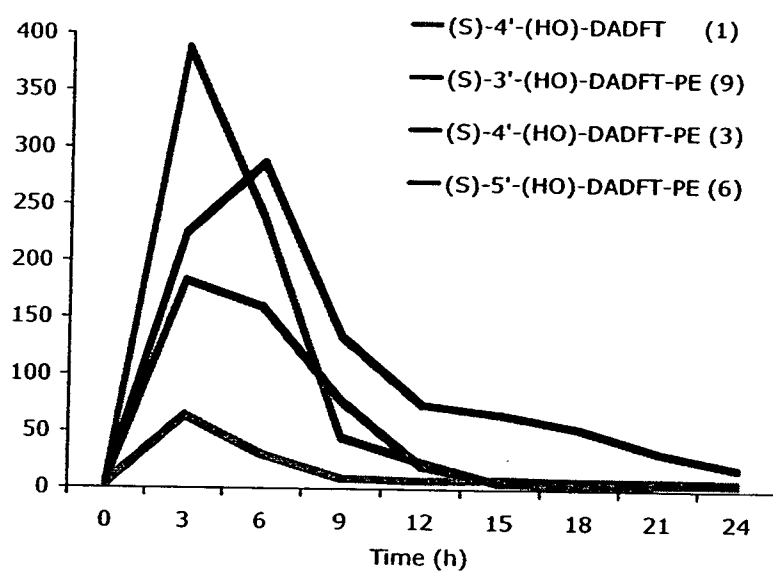
<sup>1</sup>H Assignment (12)

(multiplicity, integration, coupling constant in Hz)

|   |                                 |
|---|---------------------------------|
| a | 1.27 (d, 3 H, $J = 6.3$ )       |
| a | 1.29 (d, 3 H, $J = 6.3$ )       |
| b | 1.66 (s, 3 H)                   |
| c | 3.23 (d, 1 H, $J = 11.3$ )      |
| d | 3.38 (s, 3 H)                   |
| e | 3.53-3.58 (m, 2 H)              |
| e | 3.64-3.67 (m, 2 H)              |
| e | 3.68-3.71 (m, 2 H)              |
| e | 3.72-3.76 (m, 2 H)              |
| f | 3.84 (t, 2 H, $J = 4.7$ )       |
| g | 3.87 (d, 1 H, $J = 11.4$ )      |
| h | 4.10 (t, 2 H, $J = 4.7$ )       |
| i | 5.09 (septet, 1 H, $J = 6.2$ )  |
| j | 6.91-6.96 (two d, 2 H)          |
| k | 7.01 (dd, 1 H, $J = 9.2, 3.2$ ) |
| l | 12.02 (br s, 1 H)               |

Figure 2

3/6

**Figure 3**

4/6

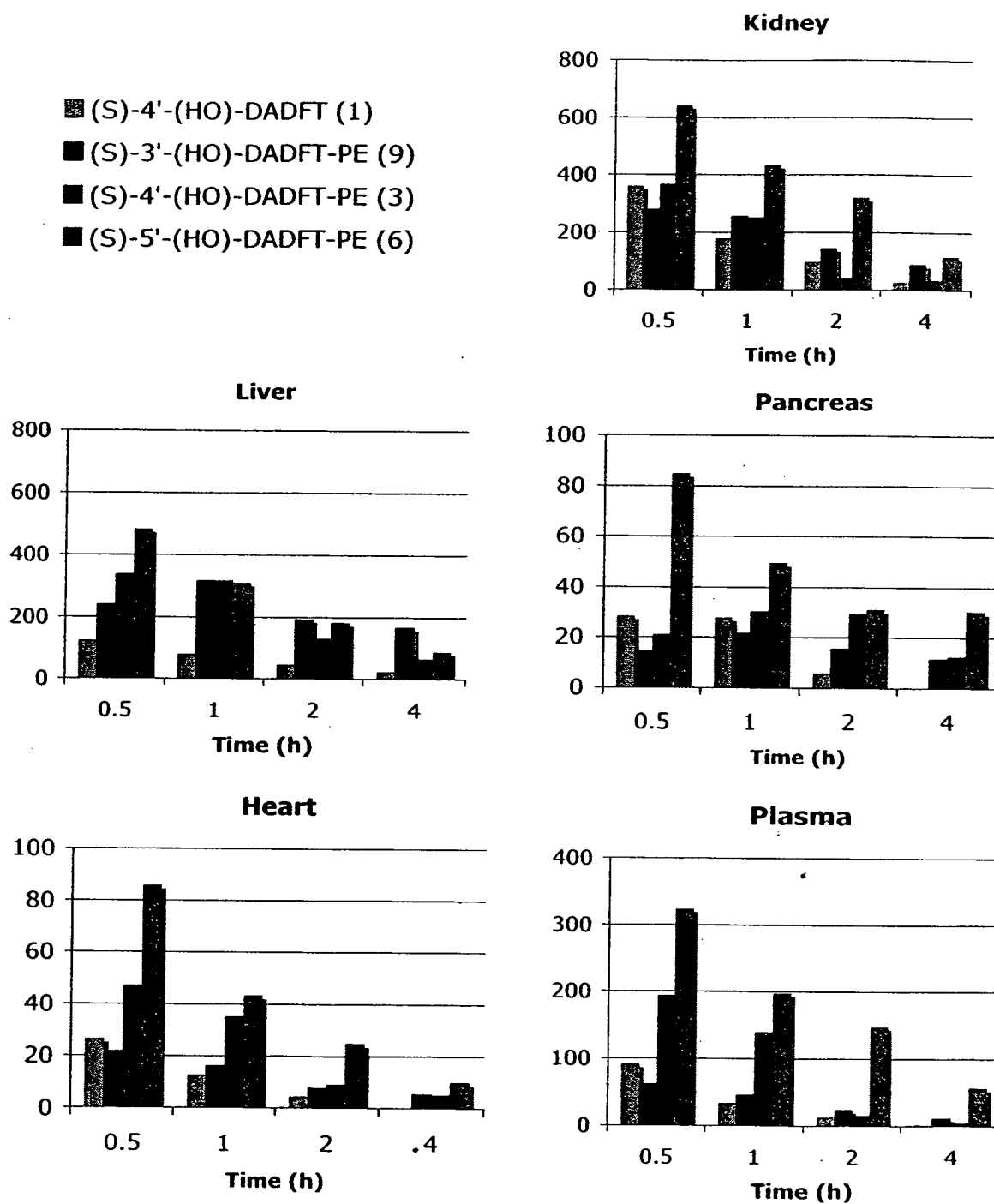


Figure 4

5/6

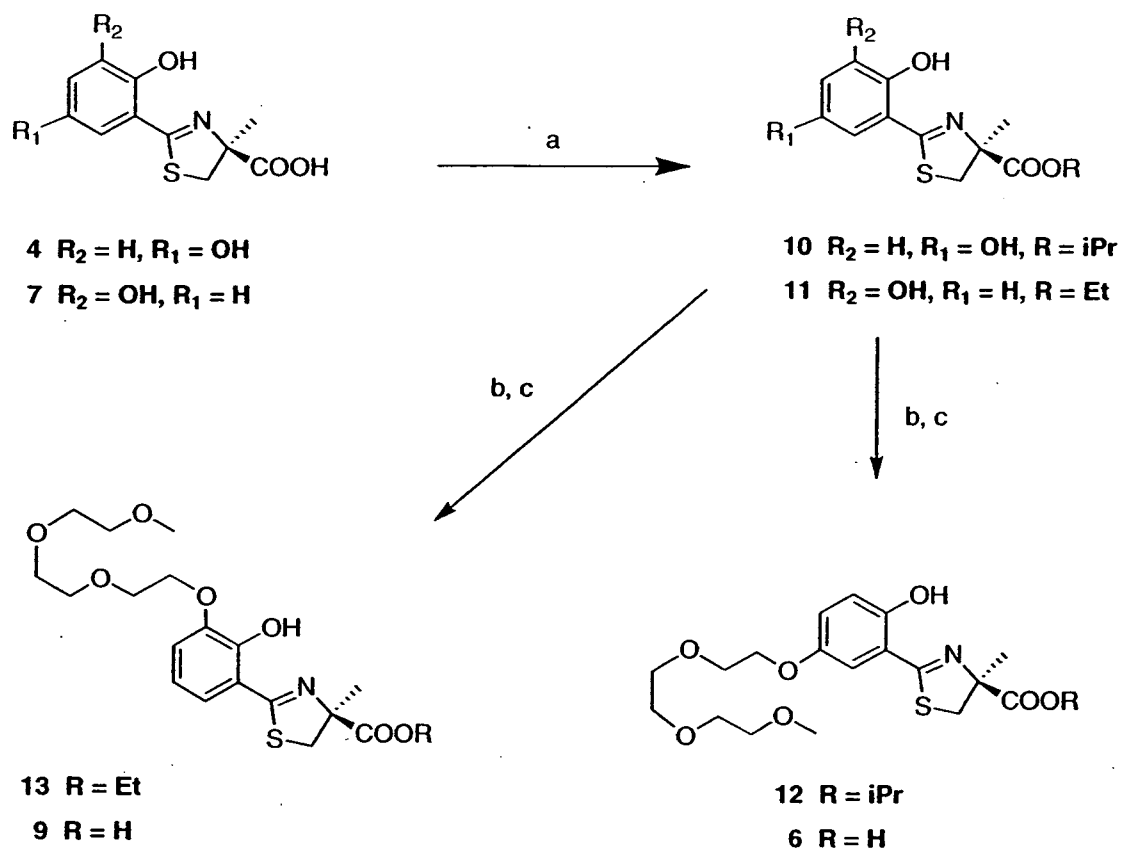
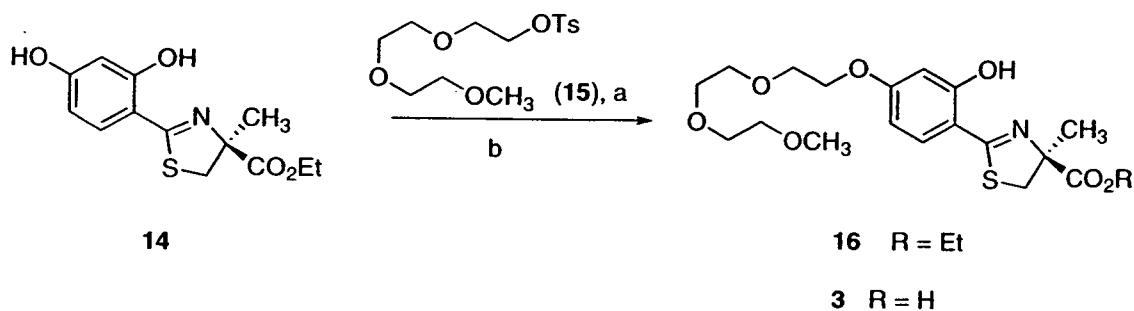
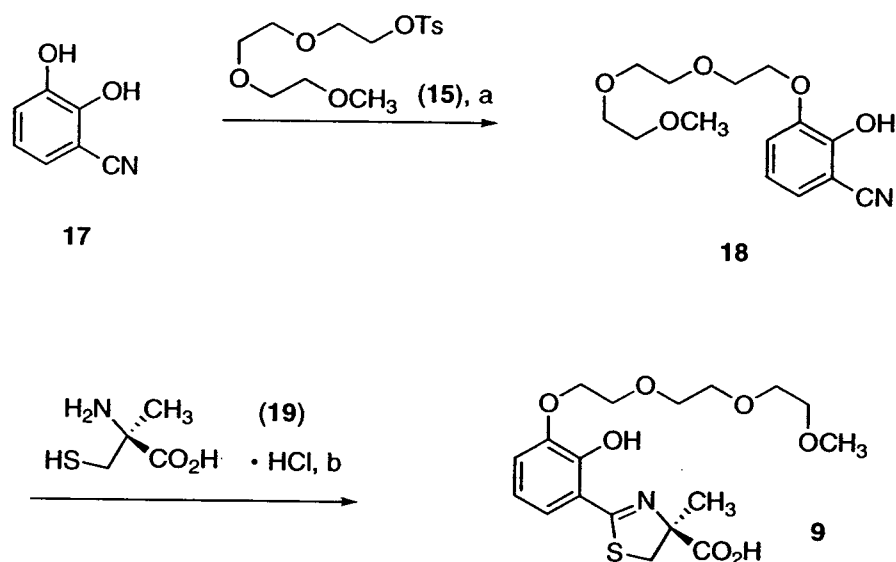


Figure 5

**Scheme 1.** Synthesis of (*S*)-5'-(HO)-DADFT-PE (**6**) and (*S*)-3'-(HO)-DADFT-PE (**9**).

<sup>a</sup> Reagents and conditions: (a) Et/*i*-PrI (1.8 equiv), DIEA (1.8 equiv), DMF, rt, 8 d, quant.; (b)  $CH_3[O(CH_2)_2]_3OH$  (1.0 equiv), DIPAD (1.2 equiv),  $PPh_3$  (1.2 equiv), dry THF, 5 °C, 1 d, 52% (**12**), 25% (**13**); (c) 50% NaOH (13 equiv),  $CH_3OH$ , 2 N HCl, rt, 97% (**6**), 60% (**9**).

6/6

**Scheme 1.****Scheme 2.****Scheme 1. Synthesis of (S)-4'-(HO)-DADFT-PE (3).**

<sup>a</sup> Reagents and conditions: (a) K<sub>2</sub>CO<sub>3</sub> (2.1 equiv), acetone, 82%; (b) 50% NaOH (13 equiv), CH<sub>3</sub>OH, then 1 N HCl, rt, 1 d, 95%.

**Scheme 2. Synthesis of (S)-3'-(HO)-DADFT-PE (9).**

<sup>a</sup> Reagents and conditions: (a) 60% NaH (2.1 equiv), DMSO, 70%; (b) CH<sub>3</sub>OH (aq), pH 6, 70 °C, 16 h, 90%.

**Figure 6**