

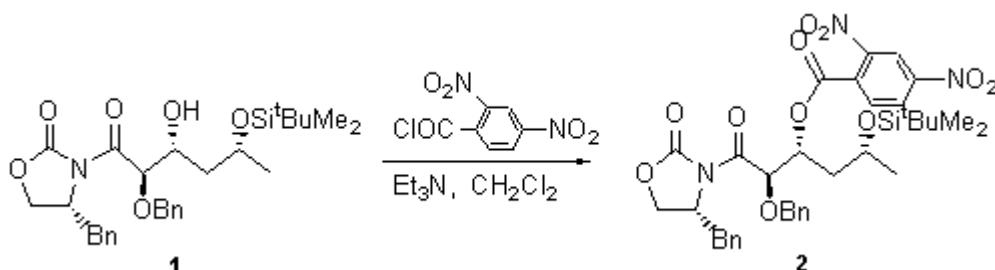
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### 3-[5-(*tert*-Butyldimethylsilyloxy)-3-(3,5-dinitrobenzoyl)-1-oxo-2-(phenylmethoxy)hexyl]-4-(phenylmethyl)-2-oxazolidinone

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A mixture of alcohol **1** (104 mg, 0.20 mmol) [1], triethylamine (41 l, 0.30 mmol) and 3,5-dinitrobenzoyl chloride (55 mg, 0.24 mmol) in dichloromethane (2 ml) was stirred for 2 h. at 30°C. The reaction mixture was poured into saturated aqueous sodium hydrogen carbonate (5 ml), extracted into ethyl acetate (2 x 10 ml), washed with water (2 x 5 ml) and dried over sodium sulfate. Removal of the solvent under reduced pressure and purification of the residue by flash chromatography, using light petroleum-ethyl acetate (8:2) as eluent, gave the title compound **2** (110 mg, 78%) as a colourless oil.

$[\alpha]_D -40.22$  (c 1.217,  $\text{CHCl}_3$ ).

IR ( $\text{cm}^{-1}$ , neat): 1783s, 1737s, 1709s, 1389m, 1109m.

$^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ): 0.03, 0.04 (6H, s,  $\text{SiMe}_2$ ), 0.86 (9H, s,  $\text{Bu}^t$ ), 1.19 (3H, d,  $J_{6',5'} 6.0$  Hz,  $\text{H}_6'$ ), 2.09-2.12 (2H, m,  $\text{H}_4'$ ), 2.69 (1H, dd,  $J_{\text{gem}} 13.5$  and  $J 9.4$  Hz,  $\text{CHCH}^A\text{Ph}$ ), 3.20 (1H, dd,  $J_{\text{gem}} 13.5$  and  $J 3.3$  Hz,  $\text{CHCH}^B\text{Ph}$ ), 3.96-4.00 (1H, m,  $\text{H}_5'$ ), 4.12 (1H, dd,  $J_{\text{gem}} 9.1$  and  $J_{5A,4} 7.7$  Hz,  $\text{H}_5^A$ ), 4.17 (1H, dd,  $J_{\text{gem}} 9.1$  and  $J_{5B,4} 2.8$  Hz,  $\text{H}_5^B$ ), 4.62-4.65 (1H, m,  $\text{H}_4$ ), 4.66 (1H, d,  $J_{\text{gem}} 11.4$  Hz,  $\text{OCH}^A\text{Ph}$ ), 4.73 (1H, d,  $J_{\text{gem}} 11.4$  Hz,  $\text{OCH}^B\text{Ph}$ ), 5.56 (1H, d,  $J_{2',3'} 4.0$  Hz,  $\text{H}_2'$ ), 5.70-5.73 (1H, m,  $\text{H}_3'$ ), 7.17-7.38 (10H, m, Ph), 9.13 (2H, d,  $J 2.1$  Hz,  $\text{PhNO}_2$ ), 9.21 (1H, t,  $J 2.1$  and  $J 2.1$  Hz,  $\text{PhNO}_2$ ).

$^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3$ ): -4.8, -4.4 ( $\text{CH}_3$ ,  $\text{SiMe}_2$ ), 18.0 (quat.,  $\text{CMe}_3$ ), 23.4 ( $\text{CH}_3$ ,  $\text{C}_6'$ ), 25.8 ( $\text{CH}_3$ ,  $\text{CMe}_3$ ), 37.5 ( $\text{CH}_2$ ,  $\text{CHCH}_2\text{Ph}$ ), 39.7 ( $\text{CH}_2$ ,  $\text{C}_4'$ ), 55.6 ( $\text{CH}$ ,  $\text{C}_4$ ), 65.6 ( $\text{CH}_2$ ,  $\text{C}_5$ ), 66.6 ( $\text{CH}$ ,  $\text{C}_5'$ ), 73.4 ( $\text{CH}$ ,  $\text{C}_3'$ ), 73.5 ( $\text{CH}_2$ ,  $\text{OCH}_2\text{Ph}$ ), 77.9 ( $\text{CH}$ ,  $\text{C}_2'$ ), 122.4, 127.5, 128.2, 128.4, 128.5, 129.0, 129.4, 129.5 [ $\text{CH}$ , 3 x Ph (last 5 peaks coincidental)], 133.8 (quat.,  $\text{CHCH}_2\text{Ph}$ ), 134.7 (quat.,  $\text{OC}=\text{OC}$ ), 136.9 (quat.,  $\text{OCH}_2\text{Ph}$ ), 148.7 (quat.,  $\text{CNO}_2$ ), 152.9 (quat.,  $\text{C}_2$ ) 161.5 (quat.,  $\text{OC}=\text{O}$ ), 169.2 (quat.,  $\text{C}_1'$ ).

CI-MS: (FAB, NBA matrix) 722 ( $\text{MH}^+$ , 2%), 664 (4), 614 ( $\text{MH}^+ - \text{HOCH}_2\text{Ph}$ , 1), 590 ( $\text{MH}^+ - \text{HOSiMe}_2\text{Bu}^t$ , 4), 269 (5), 195 ( $\text{C}_7\text{H}_3\text{N}_2\text{O}_5$ , 4), 91 ( $\text{CH}_2\text{Ph}$ , 100), 73 (48).

Anal. calc. for  $\text{C}_{36}\text{H}_{43}\text{N}_3\text{O}_{11}\text{Si}$   $\text{MH}^+$  (CI,  $\text{NH}_3$ ), 722.2732; found  $\text{MH}^+$ , 722.2745.

#### Reference

1. Brimble, M. A.; Park, J. S. O. *J. Chem. Soc. Perkin Trans. I* **2000**, 697-709.

*Sample availability:* available from the authors.

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