

Supporting information for:

Concise Synthesis of an Enantiopure Bicyclic Pyrazinone as Constrained Peptidomimetic Building Block

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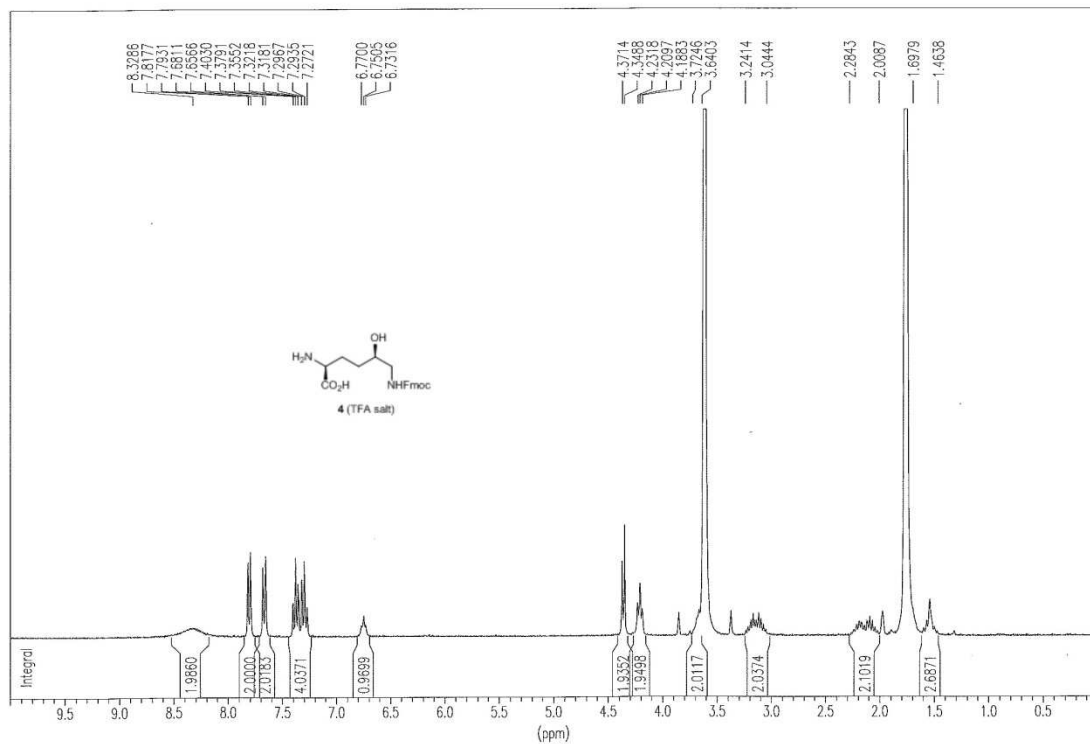
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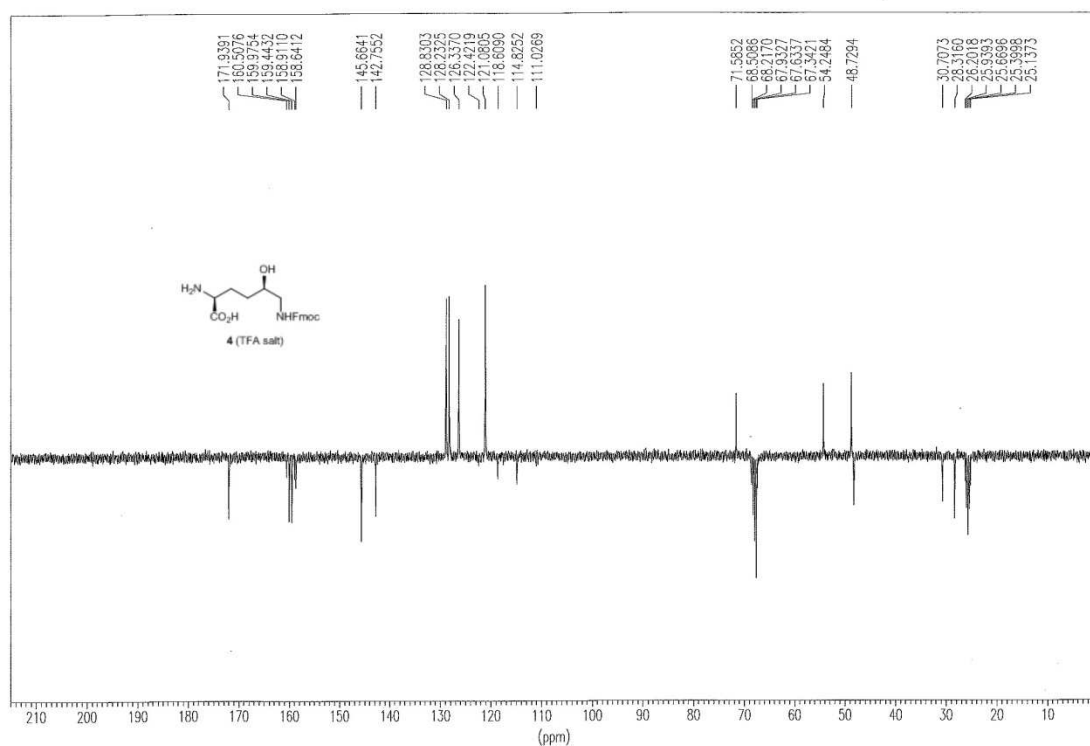
I NMR spectra	S2
I.1 (2 <i>S</i> ,5 <i>R</i>)-6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoic acid 4 (¹ H)	S2
I.1 (2 <i>S</i> , 5 <i>R</i>)-6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoic acid 4 (JMOD)	S2
I.2 (2 <i>S</i> , 5 <i>R</i>)-methyl 6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoate hydrochloride 5 (¹ H)	S3
I.2 (2 <i>S</i> , 5 <i>R</i>)-methyl 6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoate hydrochloride 5 (JMOD)	S3
I.3 (2 <i>S</i> ,5 <i>R</i>)-methyl 6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-5-hydroxy-2-(2-methoxy-2-oxoacetamido)hexanoate 7 (¹ H)	S4
I.3 (2 <i>S</i> ,5 <i>R</i>)-methyl 6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-5-hydroxy-2-(2-methoxy-2-oxoacetamido)hexanoate 7 (JMOD)	S4
I.4 (<i>S</i>)-methyl 6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-2-(2-methoxy-2-oxoacetamido)-5-oxohexanoate 3 (¹ H)	S5
I.4 (<i>S</i>)-methyl 6-(((9 <i>H</i> -fluoren-9-yl)methoxy)carbonylamino)-2-(2-methoxy-2-oxoacetamido)-5-oxohexanoate 3 (JMOD)	S5
I.5 (<i>S</i>)-methyl 8 <i>a</i> -hydroxy-3,4-dioxooctahydropyrrolo[1,2- <i>a</i>]pyrazine-6-carboxylate 2 (¹ H)	S6
I.5 (<i>S</i>)-methyl 8 <i>a</i> -hydroxy-3,4-dioxooctahydropyrrolo[1,2- <i>a</i>]pyrazine-6-carboxylate 2 (JMOD)	S6
I.6 (<i>S</i>)-Methyl 3,4-dioxo-2,3,4,6,7,8-hexahydropyrrolo[1,2- <i>a</i>]pyrazine-6-carboxylate 1 (¹ H)	S7
I.6 (<i>S</i>)-Methyl 3,4-dioxo-2,3,4,6,7,8-hexahydropyrrolo[1,2- <i>a</i>]pyrazine-6-carboxylate 1 (JMOD)	S7

I NMR spectra

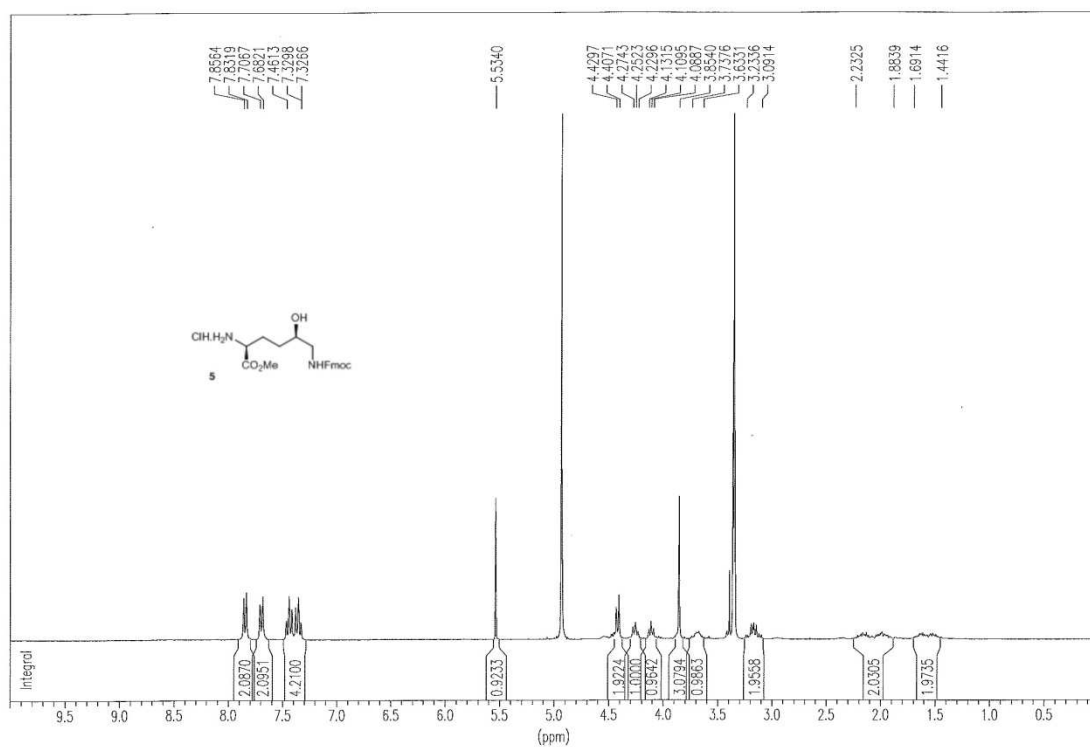
I.1 (2*S*,5*R*)-6-(((9*H*-fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoic acid 4 (¹H)



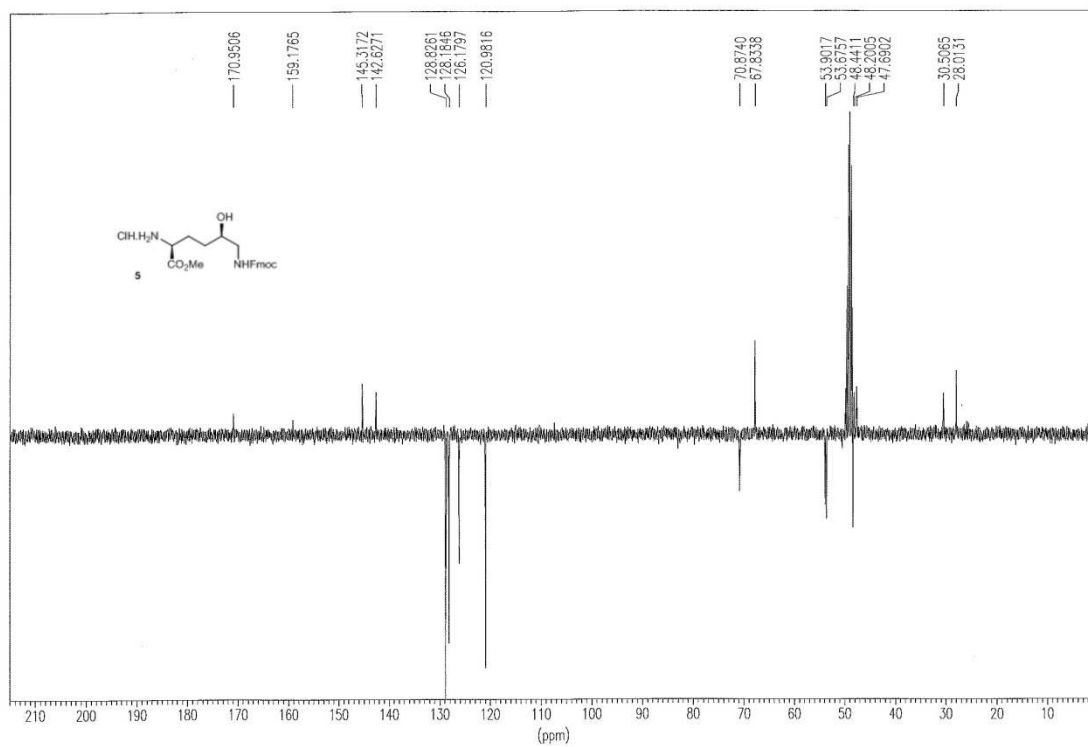
I.1 (2*S*, 5*R*)-6-(((9*H*-fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoic acid 4 (JMOD)



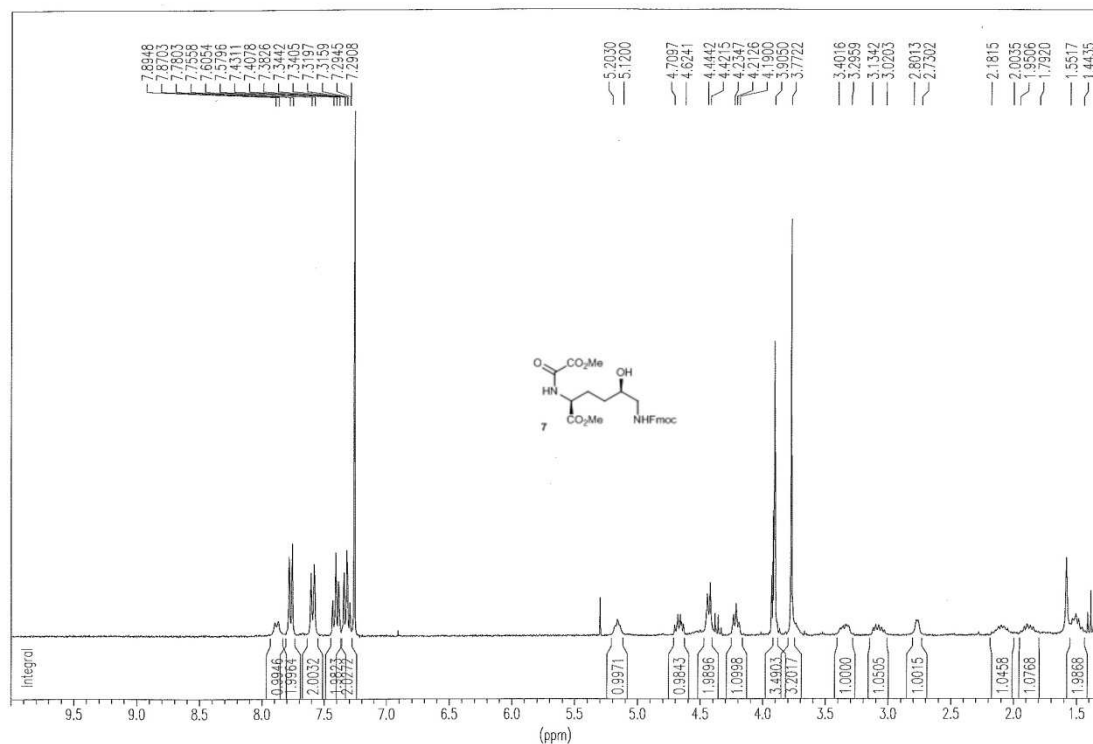
I.2 (2*S*, 5*R*)-methyl 6-(((9*H*-fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoate hydrochloride **5** (¹H)



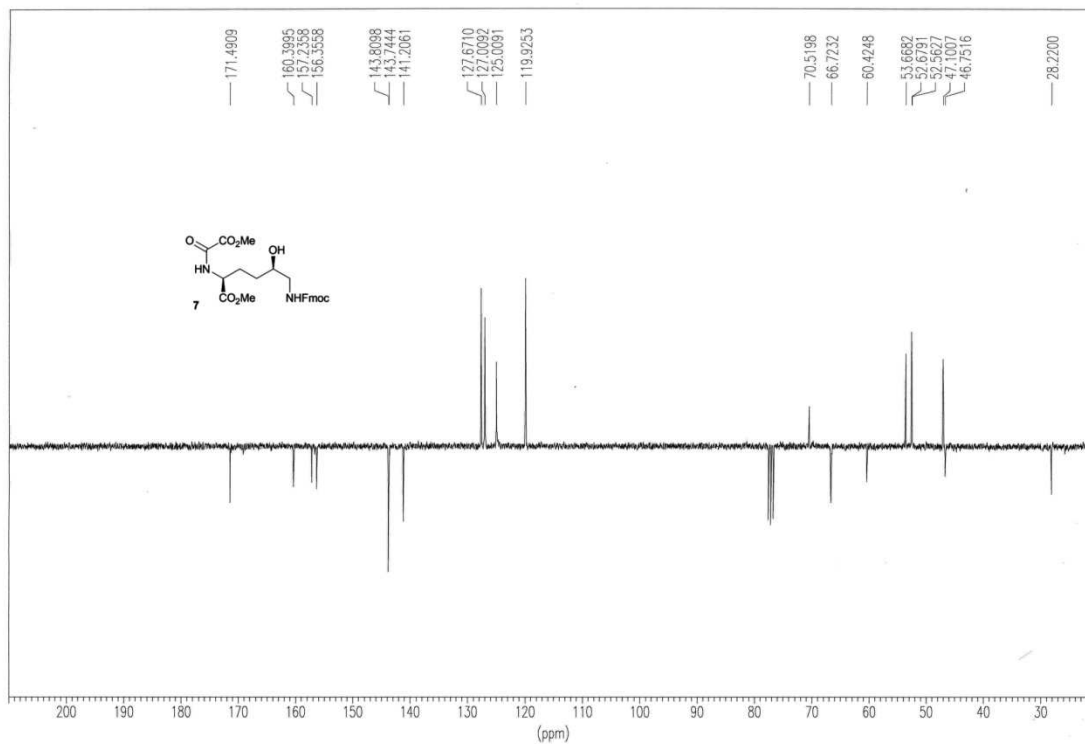
I.2 (2*S*, 5*R*)-methyl 6-(((9*H*-fluoren-9-yl)methoxy)carbonylamino)-2-amino-5-hydroxyhexanoate hydrochloride **5** (JMOD)



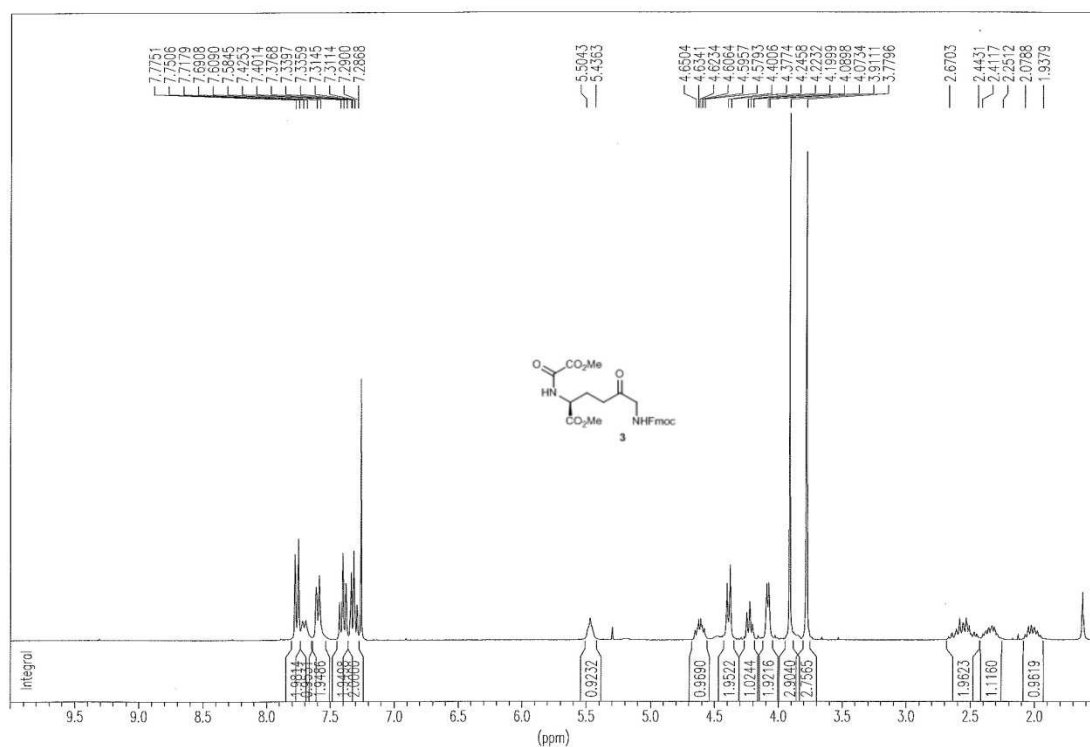
I.3 (2*S*,5*R*)-methyl 6-(((9*H*-fluoren-9-yl)methoxy)carbonylamino)-5-hydroxy-2-(2-methoxy-2-oxoacetamido)hexanoate **7** (¹H)



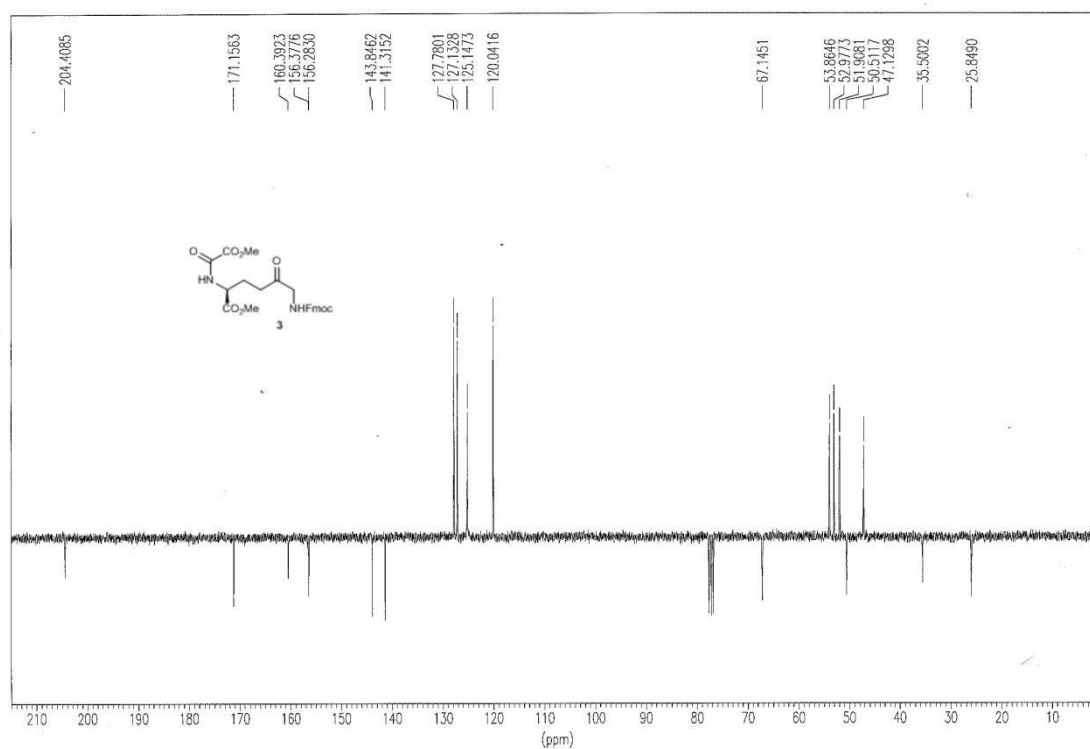
II.3 (2*S*,5*R*)-methyl 6-(((9*H*-fluoren-9-yl)methoxy)carbonylamino)-5-hydroxy-2-(2-methoxy-2-oxoacetamido)hexanoate **7** (JMOD)



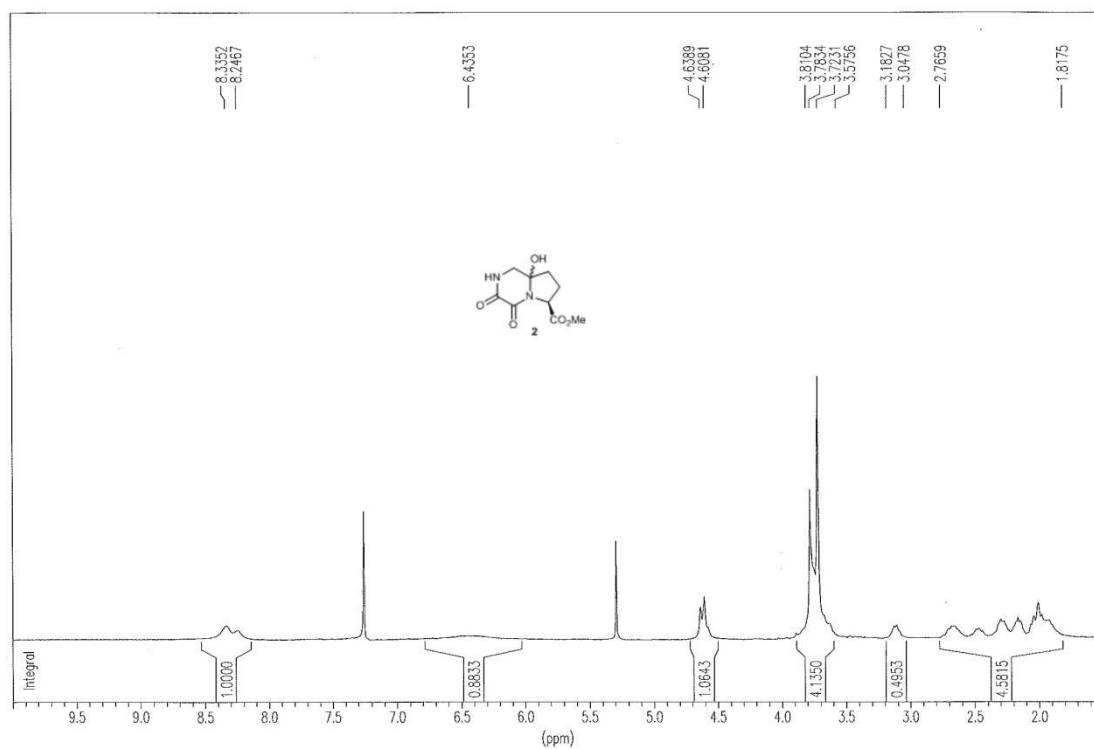
II.4 (*S*)-methyl 6-(((9H-fluoren-9-yl)methoxy)carbonylamino)-2-(2-methoxy-2-oxoacetamido)-5-oxohexanoate **3** (^1H)



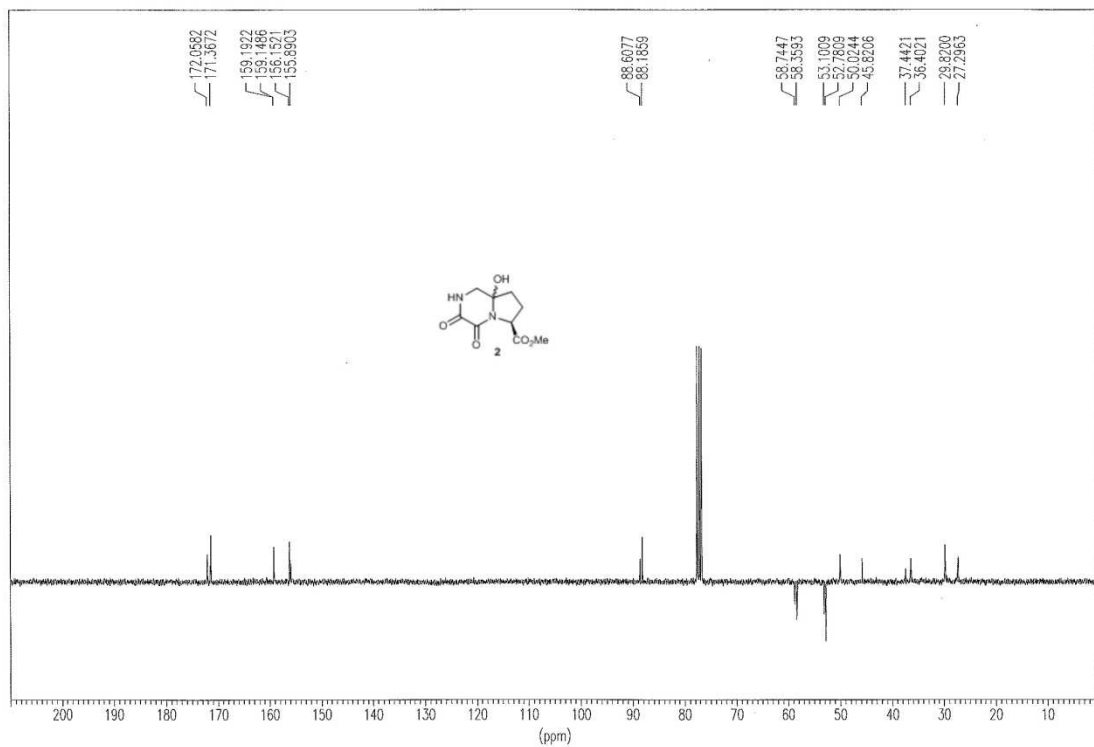
II.4 (*S*)-methyl 6-(((9H-fluoren-9-yl)methoxy)carbonylamino)-2-(2-methoxy-2-oxoacetamido)-5-oxohexanoate **3** (JMOL)



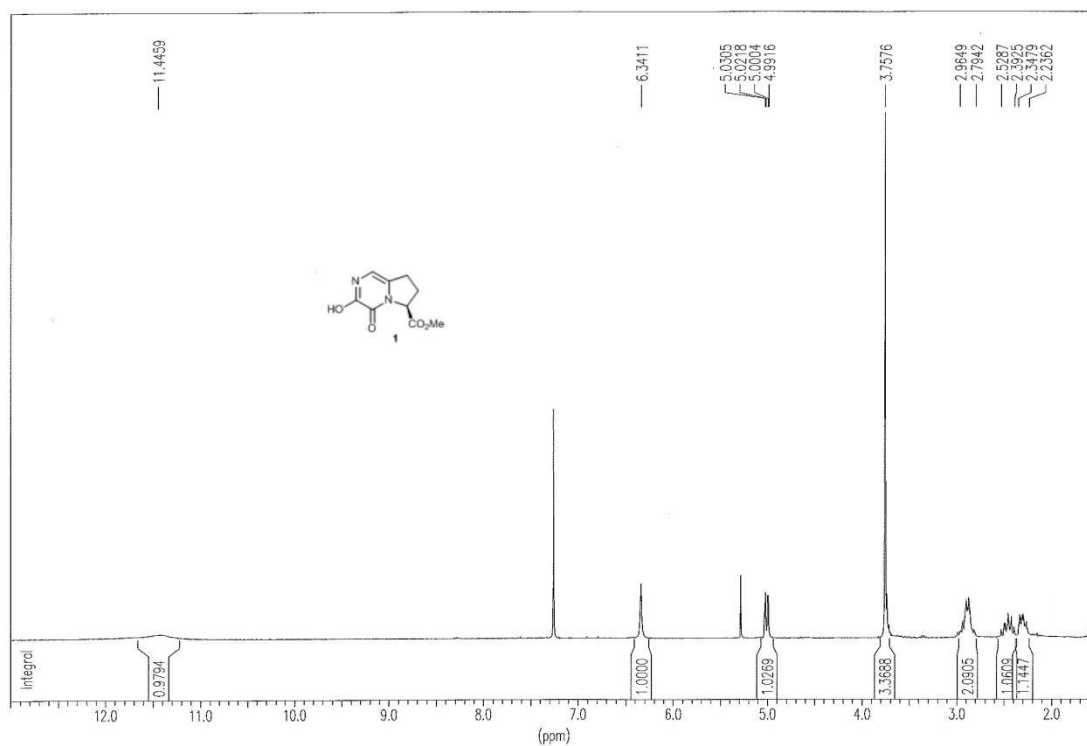
II.5 (*S*)-methyl 8a-hydroxy-3,4-dioxooctahydropyrrolo[1,2-*a*]pyrazine-6-carboxylate **2** (1H)



II.5 (*S*)-methyl 8a-hydroxy-3,4-dioxooctahydropyrrolo[1,2-*a*]pyrazine-6-carboxylate **2** (JMOD)



II.6 (*S*)-Methyl 3,4-dioxo-2,3,4,6,7,8-hexahydropyrrolo[1,2-*a*]pyrazine-6-carboxylate **1** (1H)



II.6 (*S*)-Methyl 3,4-dioxo-2,3,4,6,7,8-hexahydropyrrolo[1,2-*a*]pyrazine-6-carboxylate **1** (JMOD)

