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Supporting Information

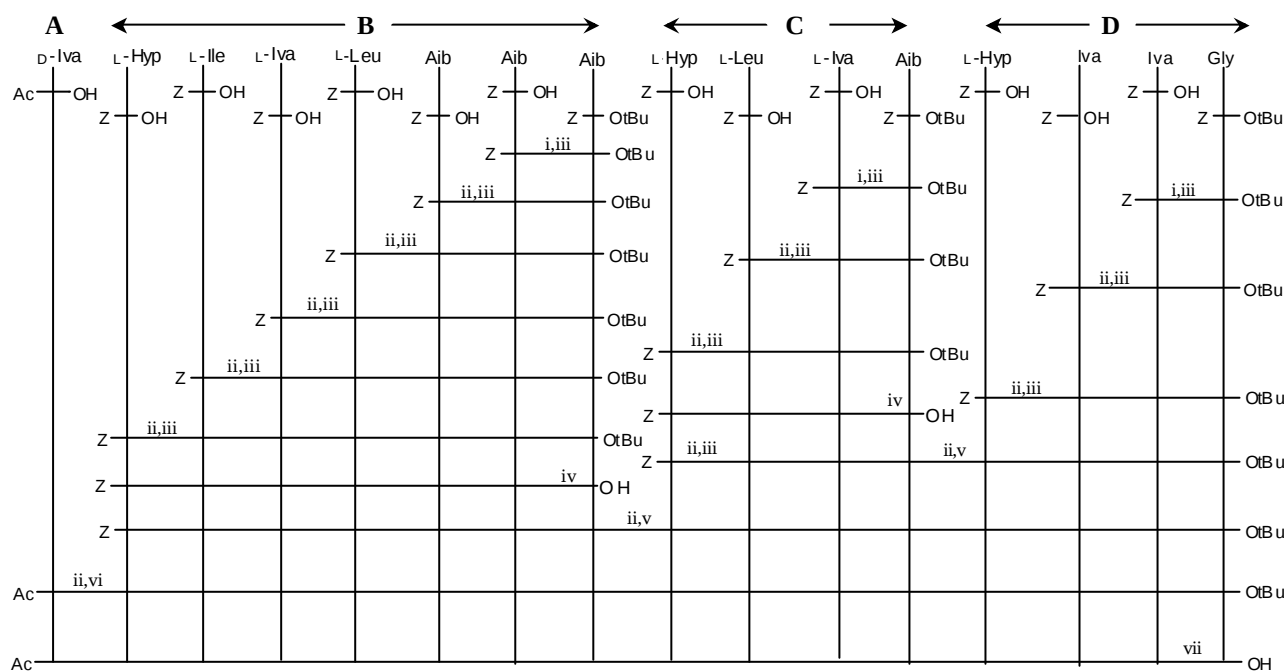
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Supporting Information

for

Complete Absolute Configuration of Integramide A, a Natural, 16-mer Peptide Inhibitor of HIV-1 Integrase, Elucidated by Total Synthesis

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Scheme S1. Strategy adopted for the synthesis of the two hexadecapeptide diastereomers Ac/OH **A-B-C-D**[Hyp^{2,9,13}], (-D-Iva¹⁴-L-Iva¹⁵-) and (-L-Iva¹⁴-D-Iva¹⁵-). i) H₂/Pd in distilled CH₂Cl₂; ii) H₂/Pd in MeOH; iii) EDC and HOAt (1.3 equiv.) in distilled CH₂Cl₂, keeping the pH at 8 by adding NMM; iv) TFA (10 equiv.) in CH₂Cl₂; v) EDC and HOAt (1.3 equiv.) at reflux in CH₃CN for 5 days, keeping the pH at 8 by adding NMM; vi) EDC, HOAt and Ac-D-Iva-OH (20 equiv. each) in DMF at 50 °C for 7 days; vii) 1,1,1,3,3,3-hexafluoroacetone (HFA) trihydrate.