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Enantiospecific Total Syntheses of Kapakahines B and F

J. Am. Chem. Soc. **2009**, *131*, 6360-6361.

Synthesis of Kapakahines B and F

Significance: Kapakahines are metabolites of the sponge *Cribrochalina olemda*. Kapakahine B has modest antileukemic activity but kapakahine F is inactive. A salient feature of this short and efficient synthesis is the in situ kinetic trapping of the α -carboline **G** which is in dynamic equilibrium with the pyrroloindoline **F**.

Comment: Cyclization of the amino acid **F** (participating atoms highlighted in red) gives a macrocycle (not shown) in 6% yield together with the desired α -carboline **G**. All the steps leading up to **H** were performed on a gram scale.

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 Synfacts 2009, 11, 1183-1183 Published online: 22.10.2009
 DOI: 10.1055/s-0029-1218029; Reg-No.: K12809SF