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Article

SolidÃƒÂ¢Ã‚Â€Ã‚Â•phase Total Synthesis of Amide Analogues of Coibamide A: Azacoibamide A and *O*ÃƒÂ¢Ã‚Â€Ã‚Â•Desmethyl Azacoibamide A

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Abstract

SolidÃƒÂ¢Ã‚Â€Ã‚Â•phase total syntheses of highly methylated cyclic azacoibamide A and its *O* ÃƒÂ¢Ã‚Â€Ã‚Â•desmethyl analogue were achieved. Two ester linkages of natural coibamide A were replaced by amide bonds to improve its pharmacokinetic properties. The synthetic strategy consists of the key onÃƒÂ¢Ã‚Â€Ã‚Â•resin macrocyclization, *N,N*ÃƒÂ¢Ã‚Â€Ã‚Â•dimethylation, and final solution phase *O*ÃƒÂ¢Ã‚Â€Ã‚Â•methylation reactions. Compared to the naturally occurring coibamide A, azacoibamide A and its *O*ÃƒÂ¢Ã‚Â€Ã‚Â•desmethyl analogue displayed low micromolar activities against tested cancer cell lines.

Citing Literature

Number of times cited: 1

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