Solid Supported Hayashi-Jørgensen Catalyst as an Efficient and Recyclable Organocatalyst for Asymmetric Michael Addition Reactions.

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A comparison of three different catalytic systems for the efficient, asymmetric synthesis of compound 1 (BZN) is described. (BZN) exhibits interesting binding to HIV-1 protease. The presented strategy is based on organocatalytic Michael addition of aldehyde 2 to \textit{trans}-nitroalkene 3, and subsequent reductive cyclization. High yields, enantio-, and diastereoselectivities were achieved in the Michael addition by application of a POSS- or Wang resin-supported Hayashi-Jørgensen catalyst.


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